Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20139 Manteno Road (ISGS Site No. 2946-29)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.247579926 (Decimal Degrees) Longitude: -88.094168909 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.247579926 Longitude: -88.094168909

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 R29-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-29. SEE FIGURE 3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108576-1.
ALSO SEE FIGURE 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-29
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R29-1(0-1)-030916	Soil Reference Concentrations[A]
Sample Date	3/9/2016	
Location ID	R29-1	
Depth	0 - 1	
ISGS Site No.	2946-29	
Parameter		
Laboratory pH (s.u.)	8.14	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthylene	17 J	---
Anthracene	22 J	1.20E+07
Benzo(a)anthracene	130 J	900 / 1100 / 1800
Benzo(a)pyrene	190 J	90 / 1300 / 2100
Benzo(b)fluoranthene	340 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	130 J	---
Benzo(k)fluoranthene	110 J	9000
Chrysene	180 J	88000
Fluoranthene	220	3100000
Indeno(1,2,3-cd)pyrene	120 J+	900 / 900 / 1600
Phenanthrene	84	---
Pyrene	440 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	3.7 J	11.3 / 13
Barium, Total	61 J	1500
Beryllium, Total	0.29	22
Cadmium, Total	0.21	5.2
Calcium, Total	85000 J-	---
Chromium, Total	43 J	21
Cobalt, Total	6	20
Copper, Total	19 J	2900
Iron, Total	9700 J	15000 / 15900
Lead, Total	190 J	107
Magnesium, Total	43000 J-	325000
Manganese, Total	400 J-	630 / 636
Mercury, Total	0.027	0.89
Nickel, Total	11 J	100
Potassium, Total	860 J+	---
Sodium, Total	1800 J+	---
Vanadium, Total	12	550
Zinc, Total	110 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.36 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0026 J	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.9 J+	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Zinc, TCLP	0.09 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.02 J	0.05
Barium, SPLP	0.37 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.081	0.1
Cobalt, SPLP	0.017 J	1
Copper, SPLP	0.071	0.65
Iron, SPLP	73 J+	5
Lead, SPLP	0.16	0.0075
Manganese, SPLP	0.68 B	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.061	0.1
Zinc, SPLP	0.44 J	5

Summary Table of ISGS Site No. 2946-29
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108576-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/22/2016 1:20:21 PM

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

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108576-1

Client Sample ID: R29-1(0-1)-030916
Date Collected: 03/09/16 12:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-5
Matrix: Solid
Percent Solids: 80.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/12/16 13:51	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/12/16 13:51	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		03/12/16 13:51	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/12/16 13:51	1
Bromomethane	<6.2	*	6.2	2.3	ug/Kg	☼		03/12/16 13:51	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/12/16 13:51	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/12/16 13:51	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/12/16 13:51	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/12/16 13:51	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/12/16 13:51	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/12/16 13:51	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/12/16 13:51	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/12/16 13:51	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		03/12/16 13:51	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/12/16 13:51	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		03/12/16 13:51	1
1,1-Dichloroethene	<6.2		6.2	2.2	ug/Kg	☼		03/12/16 13:51	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/12/16 13:51	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		03/12/16 13:51	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/12/16 13:51	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/12/16 13:51	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/12/16 13:51	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/12/16 13:51	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/12/16 13:51	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/12/16 13:51	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		03/12/16 13:51	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/12/16 13:51	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/12/16 13:51	1
Toluene	<6.2		6.2	2.2	ug/Kg	☼		03/12/16 13:51	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		03/12/16 13:51	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		03/12/16 13:51	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/12/16 13:51	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/12/16 13:51	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/12/16 13:51	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/12/16 13:51	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/12/16 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/12/16 13:51*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/12/16 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*		*03/12/16 13:51*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/12/16 13:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
1,2-Dichlorobenzene	<200		200	49	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
1,3-Dichlorobenzene	<200		200	46	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2,2'-oxybis[1-chloropropane]	<200	*	200	47	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1

Client Sample ID: R29-1(0-1)-030916
Date Collected: 03/09/16 12:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-5
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	93	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2,4-Dinitrotoluene	<200		200	65	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2,6-Dinitrotoluene	<200		200	80	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2-Methylnaphthalene	<40		40	7.5	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2-Methylphenol	<200		200	65	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2-Nitroaniline	<200		200	55	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
2-Nitrophenol	<400		400	96	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
3 & 4 Methylphenol	<200		200	68	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
3,3'-Dichlorobenzidine	<200	*	200	57	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
3-Nitroaniline	<400		400	130	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
4-Bromophenyl phenyl ether	<200		200	54	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Acenaphthene	<40		40	7.3	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Acenaphthylene	**17**	**J**	40	5.4	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Anthracene	**22**	**J**	40	6.8	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Benzo[a]anthracene	**130**	*****	40	5.5	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Benzo[a]pyrene	**190**	*****	40	7.9	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Benzo[b]fluoranthene	**340**	*****	40	8.8	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Benzo[g,h,i]perylene	**130**	*****	40	13	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Benzo[k]fluoranthene	**110**	*****	40	12	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Bis(2-chloroethyl)ether	<200		200	61	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Bis(2-ethylhexyl) phthalate	**490**	**B ***	200	74	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Butyl benzyl phthalate	<200	*	200	77	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Carbazole	<200		200	100	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Chrysene	**180**	*****	40	11	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Dibenz(a,h)anthracene	<40	*	40	7.8	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Dibenzofuran	<200		200	48	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Diethyl phthalate	<200		200	69	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Di-n-butyl phthalate	<200		200	62	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Fluoranthene	**220**		40	7.5	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Fluorene	<40		40	5.7	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Hexachlorobenzene	<82		82	9.4	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Hexachlorobutadiene	<200		200	64	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Hexachloroethane	<200		200	62	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1

Client Sample ID: R29-1(0-1)-030916
Date Collected: 03/09/16 12:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-5
Matrix: Solid
Percent Solids: 80.9

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	**120**	*	40	11	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Isophorone	<200		200	46	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
N-Nitrosodi-n-propylamine	<82		82	50	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
N-Nitrosodiphenylamine	<200		200	48	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Phenanthrene	**84**		40	5.7	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Phenol	<200		200	90	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1
Pyrene	**440**	*	40	8.1	ug/Kg	☼	03/11/16 15:19	03/18/16 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*35 - 137*	*03/11/16 15:19*	*03/18/16 02:47*	*1*
2-Fluorobiphenyl	*89*		*25 - 119*	*03/11/16 15:19*	*03/18/16 02:47*	*1*
2-Fluorophenol	*98*		*25 - 110*	*03/11/16 15:19*	*03/18/16 02:47*	*1*
Nitrobenzene-d5	*77*		*25 - 115*	*03/11/16 15:19*	*03/18/16 02:47*	*1*
Phenol-d5	*100*		*31 - 110*	*03/11/16 15:19*	*03/18/16 02:47*	*1*
Terphenyl-d14	*195*	*X *	*36 - 134*	*03/11/16 15:19*	*03/18/16 02:47*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 17:39	1
Barium	**0.36**	**J**	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 17:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 17:39	1
Cadmium	**0.0026**	**J**	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 17:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:39	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:39	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 17:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 17:39	1
Manganese	**0.90**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 17:39	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:39	1
Zinc	**0.090**	**J**	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	**J**	0.050	0.010	mg/L		03/18/16 08:40	03/19/16 04:08	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 04:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 04:08	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 04:08	1
Chromium	**0.081**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:08	1
Cobalt	**0.017**	**J**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:08	1
Copper	**0.071**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:08	1
Iron	**73**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 04:08	1
Lead	**0.16**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 04:08	1
Manganese	**0.68**	**B**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:08	1
Nickel	**0.061**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 04:08	1

Client Sample ID: R29-1(0-1)-030916
Date Collected: 03/09/16 12:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-5
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:08	1
Zinc	**0.44**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 04:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.26	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Arsenic	**3.7**		0.62	0.29	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Barium	**61**		3.1	0.56	mg/Kg	☼	03/16/16 09:16	03/18/16 23:18	5
Beryllium	**0.29**		0.25	0.053	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Cadmium	**0.21**		0.12	0.036	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Calcium	**85000**	**B**	62	20	mg/Kg	☼	03/16/16 09:16	03/18/16 23:18	5
Chromium	**43**		0.62	0.11	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Cobalt	**6.0**		0.31	0.070	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Copper	**19**		0.62	0.13	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Iron	**9700**		12	4.8	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Lead	**190**		0.31	0.15	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Magnesium	**43000**	**B**	6.2	2.5	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Manganese	**400**		3.1	0.61	mg/Kg	☼	03/16/16 09:16	03/18/16 23:18	5
Nickel	**11**		0.62	0.17	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Potassium	**860**		150	25	mg/Kg	☼	03/16/16 09:16	03/18/16 23:18	5
Selenium	<0.62		0.62	0.31	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Silver	<0.31		0.31	0.072	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Sodium	**1800**	**B**	62	8.1	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Thallium	<0.62		0.62	0.30	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Vanadium	**12**		0.31	0.090	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1
Zinc	**110**		1.2	0.39	mg/Kg	☼	03/16/16 09:16	03/17/16 23:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 13:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**27**		20	10	ug/Kg	☼	03/16/16 15:00	03/17/16 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.14**		0.200	0.200	SU			03/11/16 18:48	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108576-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

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

500-108576 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-964-2250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108576
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 2.9

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039 - IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. SIMPSON
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH					
1		AL28-6-(0-1)-030916	030916	1159	2	S		X	X	X	X	X					
2		AL28-6-(0-1)D-030916		1159	2	S		X	X	X	X	X					
3		AL28-7-(0-1)-030916		1207	2	S		X	X	X	X	X					
		~~AL32-9(0-1)-030916~~		~~1229~~				~~X~~	~~X~~	~~X~~	~~1~~		A.S				
4		RZ9-2-(0-1)-030916	030916	1229	2	S		X	X	X	X	X					
5		RZ9-1-(0-1)-030916		1242	2	S		X	X	X	X	X					
6		AL28-1-(0-1)-030916		1248	2	S		X	X	X	X	X					
7		VL31-5-(0-1)-030916		1255	2	S		X	X	X	X	X					
8		VL31-3-(0-1)-030916		1305	2	S		X	X	X	X	X					
9		VL43-2-(0-1)-030916		1310	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rejected Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
A. S	WESTON	030916	1555		TA	3/9/16	1555
	TA	3/9/16	1645	Sherri Scott	TA-CHI	3/9/16	1645

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-506 (1209)

3/22/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-108576

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

(optional)

Report To
Contact: S. Babu Sukumar
Company: WESTON SOLUTIONS
Address: 300 Plaza Circle, Ste 200
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Client: WESTON Solutions
Client Project #:
Project Name: IDOT 039-IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
							Parameter										
								7	7	7	7	7					
10		VL43-1-(0-1)-030916	030916	1535	2	S		X	X	X	X	X					
11		VL51-11-(0-1)-030916		1342	2	S		X	X	X	X	X					
12		VL51-10-(0-1)-030916		1352	2	S		X	X	X	X	X					
13		VL51-9-(0-1)-030916		1410	2	S		X	X	X	X	X					
14		VL51-8-(0-1)-030916		1425	2	S		X	X	X	X	X					
15		VL51-7-(0-1)-030916		1439	2	S		X	X	X	X	X					
16		VL51-6-(0-1)-030916		1451	2	S		X	X	X	X	X					
17		VL51-5-(0-4)-030916		1505	2	S		X	X	X	X	X					
18		VL51-4-(0-4)-030916		1525	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Reduced ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
1	A. S	WESTON	030916	1555		TA	3/9/16	1555
2		TA	3/9/16	1645		TA-CHI	3/9/16	1645
3								

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/22/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
20207 IL 102 (ISGS Site No. 2946-30)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.248295460 (Decimal Degrees) Longitude: -88.095746472 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.248295460 Longitude: -88.095746472

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 R30-1 AND R30-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-30. SEE FIGURE 3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108572-1.
ALSO SEE FIGURE 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

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

Summary Table of ISGS Site No. 2946-30
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R30-1(0-1)-030916	R30-1(0-1)-030916D	R30-2(0-1)-030916	Soil Reference Concentrations[A]
Sample Date	3/9/2016	3/9/2016	3/9/2016	
Location ID	R30-1	R30-1	R30-2	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-30	2946-30	2946-30	
Parameter				
Laboratory pH (s.u.)	8.75	8.72	8.55	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Acenaphthene	15 J	ND	ND	570000
Acenaphthylene	55	12 J	150	---
Anthracene	65	15 J	52	1.20E+07
Benzo(a)anthracene	190 J	79 J	310 J	900 / 1100 / 1800
Benzo(a)pyrene	250 J	110 J	540 J	90 / 1300 / 2100
Benzo(b)fluoranthene	380 J	190 J	680 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	230 J	210 J	660 J	---
Benzo(k)fluoranthene	170 J	64 J	270 J	9000
Chrysene	220 J	120 J	380 J	88000
Fluoranthene	320 J	110 J	210	3100000
Fluorene	20 J	ND	ND	560000
Indeno(1,2,3-cd)pyrene	150 J	110 J	490 J	900 / 900 / 1600
Phenanthrene	190 J	59 J	67	---
Pyrene	790 J	320 J	810 J	2300000
Total Metals (mg/kg)				
Antimony, Total	ND	ND	0.23 J	5
Arsenic, Total	1.9	2.4	3.1	11.3 / 13
Barium, Total	44	34	59	1500
Beryllium, Total	0.24	0.22	0.27	22
Cadmium, Total	0.11	0.1 J	0.11	5.2
Calcium, Total	140000 ^	140000 ^	100000 ^	---
Chromium, Total	ND	ND	11 B	21
Cobalt, Total	3.1	2.8	3.5	20
Copper, Total	9.3	8.2	9	2900
Iron, Total	7200 B	7300 B	7500 B	15000 / 15900
Lead, Total	11	12	45	107
Magnesium, Total	83000 ^	84000 ^	49000 B	325000
Manganese, Total	320	310	320	630 / 636
Mercury, Total	0.028	0.017	0.023	0.89
Nickel, Total	8.2 B	7.4 B	8.4 B	100
Potassium, Total	640	550	520	---
Selenium, Total	0.45 J	0.6	0.29 J	1.3
Sodium, Total	1200	1000	1400	---
Vanadium, Total	12	9	11	550
Zinc, Total	38	39	52	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.35 J	0.32 J	0.29 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	2.2	2.4	1.4	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.093 J	0.38 J	1.6	5

Summary Table of ISGS Site No. 2946-30
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R30-1(0-1)-030916	R30-1(0-1)-030916D	R30-2(0-1)-030916	Soil Reference Concentrations[A]
Sample Date	3/9/2016	3/9/2016	3/9/2016	
Location ID	R30-1	R30-1	R30-2	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-30	2946-30	2946-30	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.058	0.022 J	0.015 J	0.05
Barium, SPLP	0.74	0.33 J	0.24 J	2
Beryllium, SPLP	0.0066	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.17 J	0.079 J	0.067	0.1
Cobalt, SPLP	0.046	0.018 J	0.012 J	1
Copper, SPLP	0.14 J	0.07 J	0.048	0.65
Iron, SPLP	200 J	82 J	58 J+	5
Lead, SPLP	0.18 J	0.1 J	0.13	0.0075
Manganese, SPLP	1.7 J	0.71 J	0.55	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.15 J	0.059 J	0.043	0.1
Selenium, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.78 J+	ND	1.9 J+	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

^ - Instrument related Quality Control (QC) outside of acceptance 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: 500-108572-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/21/2016 1:27:13 PM

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

Client Sample ID: R30-1(0-1)-030916
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-1
Matrix: Solid
Percent Solids: 88.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23	F1	23	4.4	ug/Kg	☼		03/10/16 22:35	1
Benzene	<5.6	F1	5.6	1.2	ug/Kg	☼		03/10/16 22:35	1
Bromodichloromethane	<5.6	F1	5.6	0.95	ug/Kg	☼		03/10/16 22:35	1
Bromoform	<5.6	F1	5.6	1.1	ug/Kg	☼		03/10/16 22:35	1
Bromomethane	<5.6	F1 *	5.6	2.1	ug/Kg	☼		03/10/16 22:35	1
Carbon disulfide	<5.6	F1	5.6	2.1	ug/Kg	☼		03/10/16 22:35	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 22:35	1
Chlorobenzene	<5.6	F1	5.6	1.3	ug/Kg	☼		03/10/16 22:35	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/10/16 22:35	1
Chloroform	<5.6	F1	5.6	1.1	ug/Kg	☼		03/10/16 22:35	1
Chloromethane	<5.6	F1	5.6	1.4	ug/Kg	☼		03/10/16 22:35	1
cis-1,2-Dichloroethene	<5.6	F1	5.6	1.1	ug/Kg	☼		03/10/16 22:35	1
cis-1,3-Dichloropropene	<5.6	F1	5.6	1.3	ug/Kg	☼		03/10/16 22:35	1
Dibromochloromethane	<5.6	F1	5.6	0.65	ug/Kg	☼		03/10/16 22:35	1
1,1-Dichloroethane	<5.6	F1	5.6	1.2	ug/Kg	☼		03/10/16 22:35	1
1,2-Dichloroethane	<5.6	F1	5.6	0.83	ug/Kg	☼		03/10/16 22:35	1
1,1-Dichloroethene	<5.6	F1	5.6	2.0	ug/Kg	☼		03/10/16 22:35	1
1,2-Dichloropropane	<5.6	F1	5.6	1.5	ug/Kg	☼		03/10/16 22:35	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 22:35	1
Ethylbenzene	<5.6	F1	5.6	1.4	ug/Kg	☼		03/10/16 22:35	1
2-Hexanone	<5.6	F1	5.6	1.7	ug/Kg	☼		03/10/16 22:35	1
Methylene Chloride	<5.6	F1	5.6	4.3	ug/Kg	☼		03/10/16 22:35	1
Methyl Ethyl Ketone	<5.6	F1	5.6	2.0	ug/Kg	☼		03/10/16 22:35	1
methyl isobutyl ketone	<5.6	F1	5.6	1.2	ug/Kg	☼		03/10/16 22:35	1
Methyl tert-butyl ether	<5.6	F1	5.6	1.3	ug/Kg	☼		03/10/16 22:35	1
Styrene	<5.6	F1	5.6	1.3	ug/Kg	☼		03/10/16 22:35	1
1,1,2,2-Tetrachloroethane	<5.6	F1	5.6	0.89	ug/Kg	☼		03/10/16 22:35	1
Tetrachloroethene	<5.6	F1	5.6	1.2	ug/Kg	☼		03/10/16 22:35	1
Toluene	<5.6	F1	5.6	2.0	ug/Kg	☼		03/10/16 22:35	1
trans-1,2-Dichloroethene	<5.6	F1	5.6	1.4	ug/Kg	☼		03/10/16 22:35	1
trans-1,3-Dichloropropene	<5.6	F1	5.6	1.6	ug/Kg	☼		03/10/16 22:35	1
1,1,1-Trichloroethane	<5.6	F1	5.6	1.3	ug/Kg	☼		03/10/16 22:35	1
1,1,2-Trichloroethane	<5.6	F1	5.6	1.1	ug/Kg	☼		03/10/16 22:35	1
Trichloroethene	<5.6	F1	5.6	1.5	ug/Kg	☼		03/10/16 22:35	1
Vinyl chloride	<5.6	F1	5.6	1.3	ug/Kg	☼		03/10/16 22:35	1
Xylenes, Total	<11	F1	11	2.1	ug/Kg	☼		03/10/16 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/10/16 22:35*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/10/16 22:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*		*03/10/16 22:35*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/10/16 22:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1

Client Sample ID: R30-1(0-1)-030916
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-1
Matrix: Solid
Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2,4-Dinitrophenol	<730	F1	730	640	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2-Methylphenol	<180	F1	180	58	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
3,3'-Dichlorobenzidine	<180	* F1 F2	180	51	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
4,6-Dinitro-2-methylphenol	<730	F1	730	290	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
4-Bromophenyl phenyl ether	<180	F1	180	48	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Acenaphthene	**15**	**J**	36	6.5	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Acenaphthylene	**55**		36	4.8	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Anthracene	**65**		36	6.1	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Benzo[a]anthracene	**190**	*****	36	4.9	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Benzo[a]pyrene	**250**	*****	36	7.0	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Benzo[b]fluoranthene	**380**	*****	36	7.9	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Benzo[g,h,i]perylene	**230**	***** **F2**	36	12	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Benzo[k]fluoranthene	**170**	*****	36	11	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Bis(2-ethylhexyl) phthalate	<180	* F1	180	67	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Butyl benzyl phthalate	<180	* F1	180	69	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Carbazole	<180		180	91	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Chrysene	**220**	*****	36	9.9	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Di-n-octyl phthalate	<180	F1 F2	180	59	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Fluoranthene	**320**	**F1**	36	6.8	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Fluorene	**20**	**J**	36	5.1	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Hexachlorobenzene	<73	F1	73	8.4	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Hexachlorocyclopentadiene	<730	F1	730	210	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Hexachloroethane	<180	F1	180	55	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108572-1

Client Sample ID: R30-1(0-1)-030916
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-1
Matrix: Solid
Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**150**	*	36	9.4	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Isophorone	<180		180	41	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
N-Nitrosodi-n-propylamine	<73		73	45	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
N-Nitrosodiphenylamine	<180	F1	180	43	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Phenanthrene	**190**		36	5.1	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Phenol	<180		180	81	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1
Pyrene	**790**	* F1	36	7.2	ug/Kg	☼	03/11/16 07:06	03/15/16 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*35 - 137*	*03/11/16 07:06*	*03/15/16 21:02*	*1*
2-Fluorobiphenyl	*89*		*25 - 119*	*03/11/16 07:06*	*03/15/16 21:02*	*1*
2-Fluorophenol	*94*		*25 - 110*	*03/11/16 07:06*	*03/15/16 21:02*	*1*
Nitrobenzene-d5	*87*		*25 - 115*	*03/11/16 07:06*	*03/15/16 21:02*	*1*
Phenol-d5	*92*		*31 - 110*	*03/11/16 07:06*	*03/15/16 21:02*	*1*
Terphenyl-d14	*192*	*X *	*36 - 134*	*03/11/16 07:06*	*03/15/16 21:02*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/16/16 14:56	03/17/16 20:15	1
Barium	**0.35**	J	0.50	0.050	mg/L		03/16/16 14:56	03/17/16 20:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/16/16 14:56	03/17/16 20:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/16/16 14:56	03/17/16 20:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:15	1
Copper	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:15	1
Iron	<0.40		0.40	0.20	mg/L		03/16/16 14:56	03/17/16 20:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/16/16 14:56	03/17/16 20:15	1
Manganese	**2.2**		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/16/16 14:56	03/17/16 20:15	1
Silver	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:15	1
Zinc	**0.093**	J	0.50	0.020	mg/L		03/16/16 14:56	03/17/16 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.058**		0.050	0.010	mg/L		03/16/16 15:01	03/18/16 06:56	1
Barium	**0.74**		0.50	0.050	mg/L		03/16/16 15:01	03/18/16 06:56	1
Beryllium	**0.0066**		0.0040	0.0040	mg/L		03/16/16 15:01	03/18/16 06:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/16/16 15:01	03/18/16 06:56	1
Chromium	**0.17**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 06:56	1
Cobalt	**0.046**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 06:56	1
Copper	**0.14**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 06:56	1
Iron	**200**		0.40	0.20	mg/L		03/16/16 15:01	03/18/16 22:02	1
Lead	**0.18**		0.0075	0.0075	mg/L		03/16/16 15:01	03/18/16 22:02	1
Manganese	**1.7**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 06:56	1
Nickel	**0.15**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 06:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/16/16 15:01	03/18/16 06:56	1

Client Sample ID: R30-1(0-1)-030916
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-1
Matrix: Solid
Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 06:56	1
Zinc	**0.78**	**B**	0.50	0.020	mg/L		03/16/16 15:01	03/18/16 06:56	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Arsenic	**1.9**		0.55	0.25	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Barium	**44**		0.55	0.10	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Beryllium	**0.24**		0.22	0.047	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Cadmium	**0.11**		0.11	0.032	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Calcium	**140000**	**^**	110	35	mg/Kg	☼	03/14/16 14:56	03/16/16 08:18	10
Chromium	**8.5**	**B**	2.7	0.094	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Cobalt	**3.1**		0.27	0.062	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Copper	**9.3**		0.55	0.12	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Iron	**7200**	**B**	11	4.2	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Lead	**11**		0.27	0.14	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Magnesium	**83000**	**^**	55	22	mg/Kg	☼	03/14/16 14:56	03/16/16 08:18	10
Manganese	**320**		0.55	0.11	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Nickel	**8.2**	**B**	0.55	0.15	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Potassium	**640**		27	4.5	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Selenium	**0.45**	**J**	0.55	0.27	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Sodium	**1200**		55	7.2	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Vanadium	**12**		0.27	0.080	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1
Zinc	**38**		1.1	0.35	mg/Kg	☼	03/14/16 14:56	03/15/16 12:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/16/16 16:00	03/17/16 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/19/16 12:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**28**		18	9.2	ug/Kg	☼	03/16/16 15:00	03/17/16 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.75**		0.200	0.200	SU			03/11/16 00:23	1

Client Sample ID: R30-1(0-1)-030916D
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-2
Matrix: Solid
Percent Solids: 91.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/10/16 23:50	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/10/16 23:50	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		03/10/16 23:50	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/10/16 23:50	1
Bromomethane	<5.4	*	5.4	2.0	ug/Kg	☼		03/10/16 23:50	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/10/16 23:50	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/10/16 23:50	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/10/16 23:50	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/10/16 23:50	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/10/16 23:50	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/10/16 23:50	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/10/16 23:50	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/10/16 23:50	1
Dibromochloromethane	<5.4		5.4	0.63	ug/Kg	☼		03/10/16 23:50	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/10/16 23:50	1
1,2-Dichloroethane	<5.4		5.4	0.81	ug/Kg	☼		03/10/16 23:50	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/10/16 23:50	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/10/16 23:50	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/10/16 23:50	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/10/16 23:50	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/10/16 23:50	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/10/16 23:50	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/10/16 23:50	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/10/16 23:50	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/10/16 23:50	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/10/16 23:50	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/10/16 23:50	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/10/16 23:50	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/10/16 23:50	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/10/16 23:50	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/10/16 23:50	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/10/16 23:50	1
1,1,2-Trichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/10/16 23:50	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/10/16 23:50	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/10/16 23:50	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 122*		*03/10/16 23:50*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/10/16 23:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*		*03/10/16 23:50*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/10/16 23:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1

Client Sample ID: R30-1(0-1)-030916D
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-2
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Acenaphthylene	**12**	**J**	36	4.8	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Anthracene	**15**	**J**	36	6.0	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Benzo[a]anthracene	**79**	*****	36	4.9	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Benzo[a]pyrene	**110**	*****	36	7.0	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Benzo[b]fluoranthene	**190**	*****	36	7.8	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Benzo[g,h,i]perylene	**210**	*****	36	12	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Benzo[k]fluoranthene	**64**	*****	36	11	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Carbazole	<180		180	90	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Chrysene	**120**	*****	36	9.8	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Fluoranthene	**110**		36	6.7	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1

Client Sample ID: R30-1(0-1)-030916D
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-2
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**110**	*	36	9.3	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Isophorone	<180		180	41	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Phenanthrene	**59**		36	5.0	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Phenol	<180		180	80	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1
Pyrene	**320**	*	36	7.2	ug/Kg	☼	03/11/16 07:06	03/15/16 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*35 - 137*	*03/11/16 07:06*	*03/15/16 21:32*	*1*
2-Fluorobiphenyl	*98*		*25 - 119*	*03/11/16 07:06*	*03/15/16 21:32*	*1*
2-Fluorophenol	*104*		*25 - 110*	*03/11/16 07:06*	*03/15/16 21:32*	*1*
Nitrobenzene-d5	*93*		*25 - 115*	*03/11/16 07:06*	*03/15/16 21:32*	*1*
Phenol-d5	*102*		*31 - 110*	*03/11/16 07:06*	*03/15/16 21:32*	*1*
Terphenyl-d14	*215*	*X *	*36 - 134*	*03/11/16 07:06*	*03/15/16 21:32*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/16/16 14:56	03/17/16 20:20	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		03/16/16 14:56	03/17/16 20:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/16/16 14:56	03/17/16 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/16/16 14:56	03/17/16 20:20	1
Chromium	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:20	1
Cobalt	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:20	1
Copper	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:20	1
Iron	<0.40		0.40	0.20	mg/L		03/16/16 14:56	03/17/16 20:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/16/16 14:56	03/17/16 20:20	1
Manganese	**2.4**		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:20	1
Nickel	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/16/16 14:56	03/17/16 20:20	1
Silver	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:20	1
Zinc	**0.38**	**J**	0.50	0.020	mg/L		03/16/16 14:56	03/17/16 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.022**	**J**	0.050	0.010	mg/L		03/16/16 15:01	03/18/16 07:01	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		03/16/16 15:01	03/18/16 07:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/16/16 15:01	03/18/16 07:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/16/16 15:01	03/18/16 07:01	1
Chromium	**0.079**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:01	1
Cobalt	**0.018**	**J**	0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:01	1
Copper	**0.070**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:01	1
Iron	**82**		0.40	0.20	mg/L		03/16/16 15:01	03/18/16 22:07	1
Lead	**0.10**		0.0075	0.0075	mg/L		03/16/16 15:01	03/18/16 22:07	1
Manganese	**0.71**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:01	1
Nickel	**0.059**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/16/16 15:01	03/18/16 07:01	1

Client Sample ID: R30-1(0-1)-030916D
Date Collected: 03/09/16 08:43
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-2
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:01	1
Zinc	**0.38**	**J B**	0.50	0.020	mg/L		03/16/16 15:01	03/18/16 07:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Arsenic	**2.4**		0.54	0.25	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Barium	**34**		0.54	0.099	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Beryllium	**0.22**		0.22	0.047	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Cadmium	**0.10**	**J**	0.11	0.031	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Calcium	**140000**	**^**	110	35	mg/Kg	☼	03/14/16 14:56	03/16/16 08:30	10
Chromium	**8.1**	**B**	2.7	0.093	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Cobalt	**2.8**		0.27	0.061	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Copper	**8.2**		0.54	0.12	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Iron	**7300**	**B**	11	4.2	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Lead	**12**		0.27	0.14	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Magnesium	**84000**	**^**	54	22	mg/Kg	☼	03/14/16 14:56	03/16/16 08:30	10
Manganese	**310**		0.54	0.11	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Nickel	**7.4**	**B**	0.54	0.15	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Potassium	**550**		27	4.4	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Selenium	**0.60**		0.54	0.27	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Sodium	**1000**		54	7.2	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Vanadium	**9.0**		0.27	0.079	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1
Zinc	**39**		1.1	0.34	mg/Kg	☼	03/14/16 14:56	03/15/16 12:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/16/16 16:00	03/17/16 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 12:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**		17	8.7	ug/Kg	☼	03/16/16 15:00	03/17/16 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.72**		0.200	0.200	SU			03/11/16 00:23	1

Client Sample ID: R30-2(0-1)-030916
Date Collected: 03/09/16 08:59
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-3
Matrix: Solid
Percent Solids: 90.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/11/16 00:16	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/11/16 00:16	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/11/16 00:16	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 00:16	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/11/16 00:16	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 00:16	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/11/16 00:16	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 00:16	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/11/16 00:16	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 00:16	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 00:16	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 00:16	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 00:16	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/11/16 00:16	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 00:16	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/11/16 00:16	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 00:16	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 00:16	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/11/16 00:16	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 00:16	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/11/16 00:16	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/11/16 00:16	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/11/16 00:16	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 00:16	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 00:16	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 00:16	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/11/16 00:16	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 00:16	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/11/16 00:16	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/11/16 00:16	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/11/16 00:16	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 00:16	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/11/16 00:16	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/11/16 00:16	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/11/16 00:16	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/11/16 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 122*		*03/11/16 00:16*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*03/11/16 00:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*03/11/16 00:16*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/11/16 00:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1

Client Sample ID: R30-2(0-1)-030916
Date Collected: 03/09/16 08:59
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-3
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
2-Nitrophenol	<360		360	84	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Acenaphthylene	**150**		36	4.7	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Anthracene	**52**		36	6.0	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Benzo[a]anthracene	**310**	*	36	4.8	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Benzo[a]pyrene	**540**	*	36	6.9	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Benzo[b]fluoranthene	**680**	*	36	7.7	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Benzo[g,h,i]perylene	**660**	*	36	12	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Benzo[k]fluoranthene	**270**	*	36	11	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Carbazole	<180		180	89	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Chrysene	**380**	*	36	9.8	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Dibenz(a,h)anthracene	<36	*	36	6.9	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Fluoranthene	**210**		36	6.6	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1

Client Sample ID: R30-2(0-1)-030916
Date Collected: 03/09/16 08:59
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-3
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**490**	*	36	9.3	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Isophorone	<180		180	40	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Phenanthrene	**67**		36	5.0	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Phenol	<180		180	79	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1
Pyrene	**810**	*	36	7.1	ug/Kg	☼	03/11/16 07:06	03/15/16 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*35 - 137*	*03/11/16 07:06*	*03/15/16 22:02*	*1*
2-Fluorobiphenyl	*98*		*25 - 119*	*03/11/16 07:06*	*03/15/16 22:02*	*1*
2-Fluorophenol	*94*		*25 - 110*	*03/11/16 07:06*	*03/15/16 22:02*	*1*
Nitrobenzene-d5	*85*		*25 - 115*	*03/11/16 07:06*	*03/15/16 22:02*	*1*
Phenol-d5	*95*		*31 - 110*	*03/11/16 07:06*	*03/15/16 22:02*	*1*
Terphenyl-d14	*207*	*X *	*36 - 134*	*03/11/16 07:06*	*03/15/16 22:02*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/16/16 14:56	03/17/16 20:25	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		03/16/16 14:56	03/17/16 20:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/16/16 14:56	03/17/16 20:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/16/16 14:56	03/17/16 20:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:25	1
Copper	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:25	1
Iron	<0.40		0.40	0.20	mg/L		03/16/16 14:56	03/17/16 20:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/16/16 14:56	03/17/16 20:25	1
Manganese	**1.4**		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/16/16 14:56	03/17/16 20:25	1
Silver	<0.025		0.025	0.010	mg/L		03/16/16 14:56	03/17/16 20:25	1
Zinc	**1.6**		0.50	0.020	mg/L		03/16/16 14:56	03/17/16 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**	**J**	0.050	0.010	mg/L		03/16/16 15:01	03/18/16 07:06	1
Barium	**0.24**	**J**	0.50	0.050	mg/L		03/16/16 15:01	03/18/16 07:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/16/16 15:01	03/18/16 07:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/16/16 15:01	03/18/16 07:06	1
Chromium	**0.067**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:06	1
Cobalt	**0.012**	**J**	0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:06	1
Copper	**0.048**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:06	1
Iron	**58**		0.40	0.20	mg/L		03/16/16 15:01	03/18/16 22:11	1
Lead	**0.13**		0.0075	0.0075	mg/L		03/16/16 15:01	03/18/16 07:06	1
Manganese	**0.55**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:06	1
Nickel	**0.043**		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/16/16 15:01	03/18/16 07:06	1

Client Sample ID: R30-2(0-1)-030916
Date Collected: 03/09/16 08:59
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108572-3
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/16/16 15:01	03/18/16 07:06	1
Zinc	**1.9**	**B**	0.50	0.020	mg/L		03/16/16 15:01	03/18/16 07:06	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	☼	03/14/16 14:56	03/15/16 12:43	1
Arsenic	**3.1**		0.53	0.24	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Barium	**59**		0.53	0.097	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Beryllium	**0.27**		0.21	0.046	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Cadmium	**0.11**		0.11	0.031	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Calcium	**100000**	**^**	110	34	mg/Kg	☼	03/14/16 14:56	03/16/16 08:34	10
Chromium	**11**	**B**	2.6	0.091	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Cobalt	**3.5**		0.26	0.060	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Copper	**9.0**		0.53	0.11	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Iron	**7500**	**B**	11	4.1	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Lead	**45**		0.26	0.13	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Magnesium	**49000**	**B**	5.3	2.1	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Manganese	**320**		0.53	0.10	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Nickel	**8.4**	**B**	0.53	0.14	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Potassium	**520**		26	4.3	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Selenium	**0.29**	**J**	0.53	0.26	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Sodium	**1400**		53	7.0	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Vanadium	**11**		0.26	0.077	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1
Zinc	**52**		1.1	0.34	mg/Kg	☼	03/14/16 14:56	03/15/16 12:43	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/16/16 16:00	03/17/16 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 12:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**23**		17	8.7	ug/Kg	☼	03/16/16 15:00	03/17/16 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.55**		0.200	0.200	SU			03/11/16 00:23	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108572-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

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

500-108572 COC

(optional)

Report To
Contact: S. Babasu Kumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108572

Chain of Custody Number:

Page 1 of 5

Temperature °C of Cooler: 2.4

Client	Client Project #
Weston	
Project Name: IDOT 039	
Project Location/State: Wilmington, IL	Lab Project #
Sampler: A. Tuchasz	Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH					Comments
1		R3C-1(0-1)-030916	3/9/16	0843	2	S		X	X	X	X	X					
2		R3C-1(0-1)-030916D	3/9/16	0843	2	S		X	X	X	X	X					
3		R3C-2(0-1)-030916	3/9/16	0859	2	S		X	X	X	X	X					
4		ALZ8-2(0-1)-030916	3/9/16	0910	2	S		X	X	X	X	X					
5		ALZ8-3(0-1)-030916	3/9/16	0920	2	S		X	X	X	X	X					
6		ALZ8-4(0-1)-030916	3/9/16	0930	2	S		X	X	X	X	X					
7		ALZ8-5(0-1)-030916	3/9/16	0945	2	S		X	X	X	X	X					
8		R24-1(0-1)-030916	3/9/16	0955	2	S		X	X	X	X	X					
9		R24-2(0-1)-030916	3/9/16	1005	2	S		X	X	X	X	X					
10		R24-3(0-1)-030916	3/9/16	1015	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/9/16	1555	[signature]	TA	3/9/16	1555
[signature]	TA	3/9/16	1645	[signature]	TA-CHI	3/9/16	1645
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108572
Chain of Custody Number:
Page 2 of 5
Temperature °C of Cooler: 2.4

Client: Weston
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP / SPLP metals	pH					Comments
11		R24-4(0-1)-030916	3/9/16	1025	2	S		X	X	X	X	X					
12		R24-5(0-1)030916	3/9/16	1040	2	S		X	X	X	X	X					
13		R24-5(0-1)-030916D	3/9/16	1040	2	S		X	X	X	X	X					
14		R24-6(0-1)-030916	3/9/16	1100	2	S		X	X	X	X	X					
15		R23-1(0-1)-030916	3/9/16	1105	2	S		X	X	X	X	X					
16		R23-2(0-1)-030916	3/9/16	1110	2	S		X	X	X	X	X					
17		R23-3(0-1)-030916	3/9/16	1120	2	S		X	X	X	X	X					
18		R23-4(0-1)-030916	3/9/16	1125	2	S		X	X	X	X	X					
19		R23-5(0-1)-030916	3/9/16	1132	2	S		X	X	X	X	X					
20		KR-1(0-1)-030916	3/9/16	1138	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/9/16	1555	[signature]	TA	3/9/16	1555
[signature]	TA	3/9/16	1645	[signature]	TA CAR	3/9/16	1645

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/21/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20000 block of IL 102 (ISGS Site No. 2946-31)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.248825647 (Decimal Degrees) Longitude: -88.096582300 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.248825647 Longitude: -88.096582300

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 VL31-2 AND VL31-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-31. SEE FIGURE 3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108576-1.
ALSO SEE FIGURE 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-31
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL31-2(0-1)-030916	VL31-3(0-1)-030916	**Soil Reference Concentrations[A]**
Sample Date	3/9/2016	3/9/2016	
Location ID	VL31-2	VL31-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-31	2946-31	
Parameter			
Laboratory pH (s.u.)	8.33	8.08	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
2-Methylnaphthalene	7.3 J	ND	---
Acenaphthylene	23 J	8.1 J	---
Anthracene	23 J	7 J	1.20E+07
Benzo(a)anthracene	120	47 J	900 / 1100 / 1800
Benzo(a)pyrene	150 J	78 J	90 / 1300 / 2100
Benzo(b)fluoranthene	280 J	130 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	71 J	56 J	---
Benzo(k)fluoranthene	100 J	47 J	9000
Butyl benzyl phthalate	ND	80 J	930000
Chrysene	140	67 J	88000
Dibenzo(a,h)anthracene	15 J	ND	90 / 200 / 420
Fluoranthene	240	78	3100000
Fluorene	5.8 J	ND	560000
Indeno(1,2,3-cd)pyrene	79 J+	54 J+	900 / 900 / 1600
Naphthalene, SVOC	18 J	ND	1800
Phenanthrene	89	37	---
Pyrene	220	160 J	2300000
Total Metals (mg/kg)			
Arsenic, Total	2.7 J	2.9 J	11.3 / 13
Barium, Total	83 J	190 J	1500
Beryllium, Total	0.32	0.35	22
Cadmium, Total	0.25	0.29	5.2
Calcium, Total	75000 J-	96000 J-	---
Chromium, Total	19 J	19 J	21
Cobalt, Total	4.6	4.6	20
Copper, Total	22 J	360 J	2900
Iron, Total	12000 J	8000 J	15000 / 15900
Lead, Total	63 J	110 J	107
Magnesium, Total	42000 J-	51000 J-	325000
Manganese, Total	450 J-	420 J-	630 / 636
Mercury, Total	0.015 J	0.021	0.89
Nickel, Total	13 J	14 J	100
Potassium, Total	830 J+	1200 J+	---
Selenium, Total	0.68	ND	1.3
Sodium, Total	1600 J+	1400 J+	---
Vanadium, Total	12	11	550
Zinc, Total	77 J	120 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.26 J	0.23 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	0.0026 J	0.0025 J	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1 J+	1.6 J+	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	0.1 J	0.19 J	5

Summary Table of ISGS Site No. 2946-31
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL31-2(0-1)-030916	VL31-3(0-1)-030916	**Soil Reference Concentrations[A]**
Sample Date	3/9/2016	3/9/2016	
Location ID	VL31-2	VL31-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-31	2946-31	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.03 J	ND	0.05
Barium, SPLP	0.44 J	0.066 J	2
Beryllium, SPLP	0.0047	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.12	0.027	0.1
Cobalt, SPLP	0.024 J	ND	1
Copper, SPLP	0.1	0.016 J	0.65
Iron, SPLP	110 J+	12 J+	5
Lead, SPLP	0.26	0.1	0.0075
Manganese, SPLP	1.1 B	0.22 B	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.085	0.011 J	0.1
Selenium, SPLP	ND	ND	0.05
Zinc, SPLP	0.62	0.15 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108576-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/22/2016 1:20:21 PM

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

Client Sample ID: VL31-3(0-1)-030916
Date Collected: 03/09/16 12:55
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-7
Matrix: Solid
Percent Solids: 88.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/12/16 14:41	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 14:41	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/12/16 14:41	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 14:41	1
Bromomethane	<5.7	*	5.7	2.1	ug/Kg	☼		03/12/16 14:41	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 14:41	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 14:41	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 14:41	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/12/16 14:41	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 14:41	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 14:41	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 14:41	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 14:41	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/12/16 14:41	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 14:41	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/12/16 14:41	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 14:41	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 14:41	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 14:41	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 14:41	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/12/16 14:41	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/12/16 14:41	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 14:41	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 14:41	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 14:41	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 14:41	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/12/16 14:41	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 14:41	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 14:41	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 14:41	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 14:41	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 14:41	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 14:41	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 14:41	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 14:41	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/12/16 14:41*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/12/16 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*		*03/12/16 14:41*	*1*
Toluene-d8 (Surr)	*110*		*75 - 122*		*03/12/16 14:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2,2'-oxybis[1-chloropropane]	<180	*	180	41	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1

Client Sample ID: VL31-3(0-1)-030916
Date Collected: 03/09/16 12:55
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-7
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Acenaphthylene	**8.1**	**J**	35	4.7	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Anthracene	**7.0**	**J**	35	5.9	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Benzo[a]anthracene	**47**	**	35	4.8	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Benzo[a]pyrene	**78**	**	35	6.8	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Benzo[b]fluoranthene	**130**	**	35	7.6	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Benzo[g,h,i]perylene	**56**	**	35	11	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Benzo[k]fluoranthene	**47**	**	35	10	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Bis(2-ethylhexyl) phthalate	**200**	**B ***	180	65	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Butyl benzyl phthalate	**80**	**J ***	180	67	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Carbazole	<180		180	88	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Chrysene	**67**	**	35	9.6	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Fluoranthene	**78**		35	6.6	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1

Client Sample ID: VL31-3(0-1)-030916
Date Collected: 03/09/16 12:55
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-7
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**54**	*	35	9.2	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Isophorone	<180		180	40	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Phenanthrene	**37**		35	4.9	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Phenol	<180		180	79	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1
Pyrene	**160**	*	35	7.0	ug/Kg	☼	03/11/16 15:19	03/18/16 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*35 - 137*	*03/11/16 15:19*	*03/18/16 03:45*	*1*
2-Fluorobiphenyl	*84*		*25 - 119*	*03/11/16 15:19*	*03/18/16 03:45*	*1*
2-Fluorophenol	*92*		*25 - 110*	*03/11/16 15:19*	*03/18/16 03:45*	*1*
Nitrobenzene-d5	*73*		*25 - 115*	*03/11/16 15:19*	*03/18/16 03:45*	*1*
Phenol-d5	*79*		*31 - 110*	*03/11/16 15:19*	*03/18/16 03:45*	*1*
Terphenyl-d14	*190*	*X *	*36 - 134*	*03/11/16 15:19*	*03/18/16 03:45*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 17:50	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 17:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 17:50	1
Cadmium	**0.0025**	**J**	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 17:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:50	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:50	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 17:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 17:50	1
Manganese	**1.6**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 17:50	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:50	1
Zinc	**0.19**	**J**	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 08:40	03/19/16 04:16	1
Barium	**0.066**	**J**	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 04:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 04:16	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 04:16	1
Chromium	**0.027**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:16	1
Copper	**0.016**	**J**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:16	1
Iron	**12**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 04:16	1
Lead	**0.10**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 04:16	1
Manganese	**0.22**	**B**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:16	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 04:16	1

Client Sample ID: VL31-3(0-1)-030916

Date Collected: 03/09/16 12:55
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-7

Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:16	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 04:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Arsenic	**2.9**		0.55	0.26	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Barium	**190**		2.8	0.51	mg/Kg	☼	03/16/16 09:16	03/18/16 23:27	5
Beryllium	**0.35**		0.22	0.048	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Cadmium	**0.29**		0.11	0.032	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Calcium	**96000**	**B**	55	18	mg/Kg	☼	03/16/16 09:16	03/18/16 23:27	5
Chromium	**19**		0.55	0.095	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Cobalt	**4.6**		0.28	0.063	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Copper	**360**		0.55	0.12	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Iron	**8000**		11	4.3	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Lead	**110**		0.28	0.14	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Magnesium	**51000**	**B**	5.5	2.3	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Manganese	**420**		2.8	0.55	mg/Kg	☼	03/16/16 09:16	03/18/16 23:27	5
Nickel	**14**		0.55	0.15	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Potassium	**1200**		140	23	mg/Kg	☼	03/16/16 09:16	03/18/16 23:27	5
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Sodium	**1400**	**B**	55	7.3	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Vanadium	**11**		0.28	0.081	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1
Zinc	**120**		1.1	0.35	mg/Kg	☼	03/16/16 09:16	03/17/16 23:50	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 13:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		18	9.7	ug/Kg	☼	03/16/16 15:00	03/17/16 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.08**		0.200	0.200	SU			03/11/16 19:01	1

Client Sample ID: VL31-2(0-1)-030916
Date Collected: 03/09/16 13:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-8
Matrix: Solid
Percent Solids: 86.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/12/16 15:06	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 15:06	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/12/16 15:06	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 15:06	1
Bromomethane	<5.8	*	5.8	2.1	ug/Kg	☼		03/12/16 15:06	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 15:06	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 15:06	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 15:06	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/12/16 15:06	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 15:06	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 15:06	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 15:06	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 15:06	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/12/16 15:06	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 15:06	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/12/16 15:06	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 15:06	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/12/16 15:06	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 15:06	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 15:06	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/12/16 15:06	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/12/16 15:06	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 15:06	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 15:06	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 15:06	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 15:06	1
1,1,2,2-Tetrachloroethane	<5.8	*	5.8	0.92	ug/Kg	☼		03/12/16 15:06	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 15:06	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/12/16 15:06	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 15:06	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 15:06	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 15:06	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 15:06	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 15:06	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 15:06	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/12/16 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/12/16 15:06*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*03/12/16 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/12/16 15:06*	*1*
Toluene-d8 (Surr)	*110*		*75 - 122*		*03/12/16 15:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2,2'-oxybis[1-chloropropane]	<180	*	180	42	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1

Client Sample ID: VL31-2(0-1)-030916
Date Collected: 03/09/16 13:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-8
Matrix: Solid
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	☼	03/11/16 15:19	03/17/16 23:26	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2-Methylnaphthalene	**7.3**	**J**	36	6.7	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Acenaphthylene	**23**	**J**	36	4.8	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Anthracene	**23**	**J**	36	6.1	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Benzo[a]anthracene	**120**		36	4.9	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Benzo[a]pyrene	**150**	*****	36	7.0	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Benzo[b]fluoranthene	**280**	*****	36	7.8	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Benzo[g,h,i]perylene	**71**	*****	36	12	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Benzo[k]fluoranthene	**100**	*****	36	11	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Bis(2-ethylhexyl) phthalate	**110**	**J B**	180	66	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Carbazole	<180		180	91	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Chrysene	**140**		36	9.9	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Dibenz(a,h)anthracene	**15**	**J ***	36	7.0	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Fluoranthene	**240**		36	6.7	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Fluorene	**5.8**	**J**	36	5.1	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1

Client Sample ID: VL31-2(0-1)-030916
Date Collected: 03/09/16 13:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-8
Matrix: Solid
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	**79**	*	36	9.4	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Isophorone	<180		180	41	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Naphthalene	**18**	J	36	5.6	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Phenanthrene	**89**		36	5.1	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Phenol	<180		180	81	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1
Pyrene	**220**		36	7.2	ug/Kg	☼	03/11/16 15:19	03/17/16 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*35 - 137*	*03/11/16 15:19*	*03/17/16 23:26*	*1*
2-Fluorobiphenyl	*73*		*25 - 119*	*03/11/16 15:19*	*03/17/16 23:26*	*1*
2-Fluorophenol	*80*		*25 - 110*	*03/11/16 15:19*	*03/17/16 23:26*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*03/11/16 15:19*	*03/17/16 23:26*	*1*
Phenol-d5	*84*		*31 - 110*	*03/11/16 15:19*	*03/17/16 23:26*	*1*
Terphenyl-d14	*88*		*36 - 134*	*03/11/16 15:19*	*03/17/16 23:26*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 17:55	1
Barium	**0.26**	J	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 17:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 17:55	1
Cadmium	**0.0026**	J	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 17:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:55	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:55	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 17:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 17:55	1
Manganese	**1.0**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 17:55	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 17:55	1
Zinc	**0.10**	J	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.030**	J	0.050	0.010	mg/L		03/18/16 08:40	03/19/16 04:21	1
Barium	**0.44**	J	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 04:21	1
Beryllium	**0.0047**		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 04:21	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 04:21	1
Chromium	**0.12**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:21	1
Cobalt	**0.024**	J	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:21	1
Copper	**0.10**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:21	1
Iron	**110**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 04:21	1
Lead	**0.26**		0.038	0.038	mg/L		03/18/16 08:40	03/19/16 19:56	5
Manganese	**1.1**	B	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:21	1
Nickel	**0.085**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:21	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 04:21	1

Client Sample ID: VL31-2(0-1)-030916
Date Collected: 03/09/16 13:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-8
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:21	1
Zinc	**0.62**		0.50	0.020	mg/L		03/18/16 08:40	03/19/16 04:21	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Arsenic	**2.7**		0.58	0.27	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Barium	**83**		2.9	0.53	mg/Kg	☼	03/16/16 09:16	03/18/16 23:32	5
Beryllium	**0.32**		0.23	0.050	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Cadmium	**0.25**		0.12	0.033	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Calcium	**75000**	**B**	58	19	mg/Kg	☼	03/16/16 09:16	03/18/16 23:32	5
Chromium	**19**		0.58	0.099	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Cobalt	**4.6**		0.29	0.065	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Copper	**22**		0.58	0.13	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Iron	**12000**		12	4.4	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Lead	**63**		0.29	0.14	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Magnesium	**42000**	**B**	5.8	2.3	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Manganese	**450**		2.9	0.57	mg/Kg	☼	03/16/16 09:16	03/18/16 23:32	5
Nickel	**13**		0.58	0.16	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Potassium	**830**		140	24	mg/Kg	☼	03/16/16 09:16	03/18/16 23:32	5
Selenium	**0.68**		0.58	0.29	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Sodium	**1600**	**B**	58	7.6	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Vanadium	**12**		0.29	0.084	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1
Zinc	**77**		1.2	0.37	mg/Kg	☼	03/16/16 09:16	03/17/16 23:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 13:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	18	9.6	ug/Kg	☼	03/16/16 15:00	03/17/16 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.33**		0.200	0.200	SU			03/11/16 19:08	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108576-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

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

500-108576 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-964-2250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108576
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 2.9

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039 - IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. SIMPSON
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH					
1		AL28-6-(0-1)-030916	030916	1159	2	S		X	X	X	X	X					
2		AL28-6-(0-1)D-030916		1159	2	S		X	X	X	X	X					
3		AL28-7-(0-1)-030916		1207	2	S		X	X	X	X	X					
		~~AL32-9(0-1)-030916~~		~~1229~~				~~X~~	~~X~~	~~X~~	~~1~~		A.S				
4		RZ9-2-(0-1)-030916	030916	1229	2	S		X	X	X	X	X					
5		RZ9-1-(0-1)-030916		1242	2	S		X	X	X	X	X					
6		AL28-1-(0-1)-030916		1248	2	S		X	X	X	X	X					
7		VL31-5-(0-1)-030916		1255	2	S		X	X	X	X	X					
8		VL31-3-(0-1)-030916		1305	2	S		X	X	X	X	X					
9		VL43-2-(0-1)-030916		1310	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rejected Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
A. S	WESTON	030916	1555		TA	3/9/16	1555
	TA	3/9/16	1645	Sherri Scott	TA-CHI	3/9/16	1645

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-506 (1209)

3/22/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-108576

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

(optional)

Report To
Contact: S. Babu Sukumar
Company: WESTON SOLUTIONS
Address: 300 Plaza Circle, Ste 200
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Client: WESTON Solutions
Client Project #:
Project Name: IDOT 039-IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
							Parameter										
								7	7	7	7	7					
10		VL43-1-(0-1)-030916	030916	1535	2	S		X	X	X	X	X					
11		VL51-11-(0-1)-030916		1342	2	S		X	X	X	X	X					
12		VL51-10-(0-1)-030916		1352	2	S		X	X	X	X	X					
13		VL51-9-(0-1)-030916		1410	2	S		X	X	X	X	X					
14		VL51-8-(0-1)-030916		1425	2	S		X	X	X	X	X					
15		VL51-7-(0-1)-030916		1439	2	S		X	X	X	X	X					
16		VL51-6-(0-1)-030916		1451	2	S		X	X	X	X	X					
17		VL51-5-(0-4)-030916		1505	2	S		X	X	X	X	X					
18		VL51-4-(0-4)-030916		1525	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Reduced ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
1	A. S	WESTON	030916	1555		TA	3/9/16	1555
2		TA	3/9/16	1645		TA-CHI	3/9/16	1645
3								

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/22/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20000 block of IL 102 (ISGS Site No. 2946-32)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.252588995 (Decimal Degrees) Longitude: -88.103700374 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.252588995 Longitude: -88.103700374

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS AL32-1 THROUGH AL32-9, AL32-11, AND AL32-12 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-32. SEE FIGURES 3-6 AND 3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108486-1 AND 500-108487-1.
ALSO SEE FIGURES 4-6 AND 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

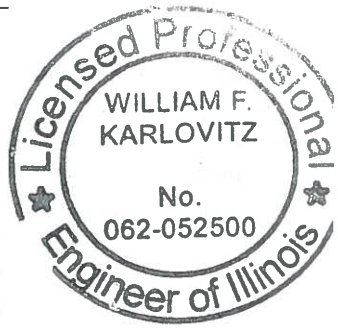
City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:



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

Summary Table of ISGS Site No. 2946-32
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL32-1(0-1)-030816	AL32-2(0-1)-030816	AL32-3(0-1)-030816	AL32-4(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	3/8/2016	3/8/2016	
Location ID	AL32-1	AL32-2	AL32-3	AL32-4	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-32	2946-32	2946-32	2946-32	
Parameter					
Laboratory pH (s.u.)	8.42	8.14	8.23	8.56	<6.25,>9.0
VOCs (ug/kg)	None Detected				
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	ND	ND	ND	---
Acenaphthene	ND	8 J	ND	44	570000
Acenaphthylene	78	66	82 J	72	---
Anthracene	27 J	73	120 J	110	1.20E+07
Benzo(a)anthracene	190 J	490 J	950 J	620	900 / 1100 / 1800
Benzo(a)pyrene	350 J	510 J	1000 J	770 J	90 / 1300 / 2100
Benzo(b)fluoranthene	480 J	720 J	1500 J	1400 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	490 J	420 J	1500 J	340 J	---
Benzo(k)fluoranthene	160 J	310 J	560 J	470 J	9000
bis(2-Ethylhexyl)phthalate	130 J	ND	ND	120 J	46000
Chrysene	210 J	510 J	960 J	710	88000
Dibenzo(a,h)anthracene	110 J	55 J	240 J	65 J	90 / 200 / 420
Fluoranthene	150	480	950 J	1600	3100000
Fluorene	5.4 J	12 J	ND	35 J	560000
Indeno(1,2,3-cd)pyrene	290 J	260 J	870 J	400 J	900 / 900 / 1600
Naphthalene, SVOC	ND	6.4 J	ND	7.6 J	1800
Phenanthrene	94	230	610 J	760	---
Pyrene	540 J	1500 J	3500 J	2300	2300000
Total Metals (mg/kg)					
Antimony, Total	ND	ND	0.53 J	ND	5
Arsenic, Total	3.5	3	3.5	5.6	11.3 / 13
Barium, Total	23 J	45 J	37 J	46	1500
Beryllium, Total	0.22	0.36	0.35	0.42	22
Cadmium, Total	0.065 J	0.29	0.24	0.24	5.2
Calcium, Total	45000 J	81000 J	65000 J	81000 B	---
Chromium, Total	8.5 J	12 J	31 J	27 B	21
Cobalt, Total	3.9	4.5	4.6	6.9	20
Copper, Total	7.4	11	12	12	2900
Iron, Total	6400 J+	8400 J+	8200 J+	12000 B	15000 / 15900
Lead, Total	30 J	69 J	170 J	120	107
Magnesium, Total	15000 J	39000 J	31000 J	35000 B	325000
Manganese, Total	200 J-	410 J-	340 J-	470	630 / 636
Mercury, Total	0.015 J	0.026	0.023	0.031	0.89
Nickel, Total	8.6 B	10 B	11 B	15	100
Potassium, Total	580 J+	710 J+	710 J+	960	---
Selenium, Total	ND	0.35 J	ND	0.36 J	1.3
Sodium, Total	390 J+	1500 J+	1500 J+	1600	---
Vanadium, Total	9.1	10	11	14	550
Zinc, Total	39 J+	74 J+	70 J+	70	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.2 J	0.21 J	0.24 J	0.33 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.2	0.86	0.74	0.76	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
Zinc, TCLP	0.19 J	0.14 J	0.11 J	ND	5

Summary Table of ISGS Site No. 2946-32
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL32-1(0-1)-030816	AL32-2(0-1)-030816	AL32-3(0-1)-030816	AL32-4(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	3/8/2016	3/8/2016	
Location ID	AL32-1	AL32-2	AL32-3	AL32-4	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-32	2946-32	2946-32	2946-32	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	0.02 J	0.02 J	ND	0.062	0.05
Barium, SPLP	0.2 J	0.32 J	0.4 J	0.66	2
Beryllium, SPLP	ND	ND	ND	0.007	0.004
Cadmium, SPLP	ND	0.0022 J	0.0023 J	0.0045 J	0.005
Chromium, SPLP	0.058	0.095	0.027	0.18	0.1
Cobalt, SPLP	0.015 J	0.02 J	ND	0.038	1
Copper, SPLP	0.047	0.064	0.026	0.15	0.65
Iron, SPLP	54 J-	94 J-	19 J-	180 J+	5
Lead, SPLP	0.089 J-	0.22 J-	0.085 J-	0.24	0.0075
Manganese, SPLP	0.78 J+	1.1 J+	0.81 J+	1.7	0.15
Mercury, SPLP	0.015 J	0.026	0.023	ND	0.002
Nickel, SPLP	0.046	0.055	0.035	0.14	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.28 J	0.68	0.49 J	0.77 B	5

Summary Table of ISGS Site No. 2946-32
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL32-5(0-1)-030816	AL32-6(0-1)-030816	AL32-7(0-4)-030816	AL32-8(0-4)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	3/8/2016	3/8/2016	
Location ID	AL32-5	AL32-6	AL32-7	AL32-8	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-32	2946-32	2946-32	2946-32	
Parameter					
Laboratory pH (s.u.)	7.88	7.68	8.3	7.82	<6.25,>9.0
SVOCs (ug/kg)					
2-Methylnaphthalene	19 J	ND	6.8 J	8.5 J	---
Acenaphthene	ND	7.2 J	ND	11 J	570000
Acenaphthylene	78	110	14 J	57	---
Anthracene	28 J	60	7 J	39	1.20E+07
Benzo(a)anthracene	260 J	390 J	58 J	290 J	900 / 1100 / 1800
Benzo(a)pyrene	360 J	600 J	73 J	350 J	90 / 1300 / 2100
Benzo(b)fluoranthene	500 J	770 J	110 J+	620 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	420 J	560 J	57 J	240 J	---
Benzo(k)fluoranthene	190 J	310 J	52 J+	180 J	9000
bis(2-Ethylhexyl)phthalate	140 J	ND	150 J	180 J	46000
Chrysene	280 J	400 J	68 J	370 J	88000
Dibenzo(a,h)anthracene	81 J	ND	ND	ND	90 / 200 / 420
Fluoranthene	160	300	61 J-	320	3100000
Fluorene	ND	14 J	ND	17 J	560000
Indeno(1,2,3-cd)pyrene	300 J	420 J	56 J	270 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	5.9 J	1800
Phenanthrene	44	190	43	250	---
Pyrene	620 J	1000 J	210 J+	1300 J	2300000
Total Metals (mg/kg)					
Antimony, Total	ND	0.38 J	ND	0.23 J	5
Arsenic, Total	3.8	2.4	3.9	3.5	11.3 / 13
Barium, Total	53 J	26 J	48	52	1500
Beryllium, Total	0.4	0.27	0.29	0.38	22
Cadmium, Total	0.23	0.11	0.35	0.31	5.2
Calcium, Total	29000 J	89000 J	93000 B	61000 B	---
Chromium, Total	13 J	7.1 J	7.8 B	15 B	21
Cobalt, Total	5.9	3	4.2	4.9	20
Copper, Total	12	6.6	11	13	2900
Iron, Total	9500 J+	6200 J+	8300 B	9100 B	15000 / 15900
Lead, Total	41 J	29 J	14	80	107
Magnesium, Total	18000 J	44000 J	28000 B	23000 B	325000
Manganese, Total	420 J-	310 J-	320	370	630 / 636
Mercury, Total	0.021	0.022	0.012 J	0.024	0.89
Nickel, Total	12 B	7.2 B	10	10	100
Potassium, Total	720 J+	640 J+	650	780	---
Selenium, Total	0.49 J	ND	ND	0.29 J	1.3
Sodium, Total	550 J+	270 J+	410	350	---
Vanadium, Total	13	8.6	9.8	11	550
Zinc, Total	63 J+	37 J+	85	71	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.19 J	0.23 J	0.32 J	0.37 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.63	0.8	1.1	0.83	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
Zinc, TCLP	0.2 J	0.13 J	0.31 J	0.29 J	5

Summary Table of ISGS Site No. 2946-32
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL32-5(0-1)-030816	AL32-6(0-1)-030816	AL32-7(0-4)-030816	AL32-8(0-4)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	3/8/2016	3/8/2016	
Location ID	AL32-5	AL32-6	AL32-7	AL32-8	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-32	2946-32	2946-32	2946-32	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	ND	ND	0.018 J	ND	0.05
Barium, SPLP	0.28 J	0.14 J	0.22 J	0.13 J	2
Beryllium, SPLP	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.058	0.03	0.048	0.024 J	0.1
Cobalt, SPLP	0.011 J	ND	0.012 J	ND	1
Copper, SPLP	0.037	0.023 J	0.042	0.024 J	0.65
Iron, SPLP	56 J-	30 J-	51 J+	22 J+	5
Lead, SPLP	0.054 J-	0.065 J-	0.06	0.087	0.0075
Manganese, SPLP	0.51 J+	0.5 J+	0.57	0.38	0.15
Mercury, SPLP	0.021	0.022	ND	ND	0.002
Nickel, SPLP	0.035	0.02 J	0.038	0.015 J	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.26 J	0.18 J	0.47 J	0.51 B	5

Summary Table of ISGS Site No. 2946-32
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL32-9(0-1)-030816	AL32-11(0-1)-030816	AL32-12(0-1)-030816	Soil Reference Concentrations[A]
Sample Date	3/8/2016	3/8/2016	3/8/2016	
Location ID	AL32-9	AL32-11	AL32-12	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-32	2946-32	2946-32	
Parameter				
Laboratory pH (s.u.)	9	8.83	8.59	<6.25,>9.0
SVOCs (ug/kg)				
2-Methylnaphthalene	ND	ND	ND	---
Acenaphthene	ND	ND	ND	570000
Acenaphthylene	7.5 J	17 J	14 J	---
Anthracene	ND	7 J	12 J	1.20E+07
Benzo(a)anthracene	71 J	87 J	110 J	900 / 1100 / 1800
Benzo(a)pyrene	130 J	130 J	160 J	90 / 1300 / 2100
Benzo(b)fluoranthene	200 J	200 J	270 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	75 J	100 J	100 J	---
Benzo(k)fluoranthene	86 J	93 J	110 J	9000
bis(2-Ethylhexyl)phthalate	130 J	160 J	160 J	46000
Chrysene	87 J	100 J	140 J	88000
Dibenzo(a,h)anthracene	ND	ND	ND	90 / 200 / 420
Fluoranthene	68	61	150	3100000
Fluorene	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	78 J	13 J	110 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	1800
Phenanthrene	15 J	21 J	62	---
Pyrene	200 J	240 J	410 J	2300000
Total Metals (mg/kg)				
Antimony, Total	ND	0.3 J	ND	5
Arsenic, Total	4.5	3.4	2.8	11.3 / 13
Barium, Total	39	78	35	1500
Beryllium, Total	0.34	0.35	0.24	22
Cadmium, Total	0.096 J	0.16	0.17	5.2
Calcium, Total	22000 B	43000 B	78000 B	---
Chromium, Total	9.8 B	12 B	9.2 B	21
Cobalt, Total	4.7	5	3.8	20
Copper, Total	12	8.3	9	2900
Iron, Total	9400 B	8700 B	7400 B	15000 / 15900
Lead, Total	16	46	30	107
Magnesium, Total	13000 B	21000 B	33000 B	325000
Manganese, Total	220	390	300	630 / 636
Mercury, Total	0.015 J	0.017 J	0.015 J	0.89
Nickel, Total	11	9.6	8.5	100
Potassium, Total	680	660	580	---
Selenium, Total	ND	ND	ND	1.3
Sodium, Total	1400	1200	1200	---
Vanadium, Total	14	11	9.5	550
Zinc, Total	36	39	100	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.36 J	0.3 J	0.3 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	1.2	0.81	0.46	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.18 J	0.15 J	0.18 J	5

Summary Table of ISGS Site No. 2946-32
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL32-9(0-1)-030816	AL32-11(0-1)-030816	AL32-12(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	3/8/2016	
Location ID	AL32-9	AL32-11	AL32-12	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-32	2946-32	2946-32	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.048 J	0.028 J	0.023 J	0.05
Barium, SPLP	0.56	0.42 J	0.34 J	2
Beryllium, SPLP	0.0053	ND	ND	0.004
Cadmium, SPLP	0.0025 J	ND	ND	0.005
Chromium, SPLP	0.12	0.089	0.078	0.1
Cobalt, SPLP	0.029	0.025	0.02 J	1
Copper, SPLP	0.12	0.07	0.059	0.65
Iron, SPLP	130 J+	96 J+	88 J+	5
Lead, SPLP	0.12	0.15	0.091	0.0075
Manganese, SPLP	1.2	1.5	1.2	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.099	0.066	0.054	0.1
Selenium, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.49 J	1 B	0.7 B	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108486-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/17/2016 2:36:37 PM

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

Client Sample ID: AL32-1(0-1)-030816

Date Collected: 03/08/16 11:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-16

Matrix: Solid
Percent Solids: 90.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/10/16 06:01	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 06:01	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/10/16 06:01	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 06:01	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/10/16 06:01	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 06:01	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 06:01	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 06:01	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/10/16 06:01	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 06:01	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 06:01	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 06:01	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 06:01	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/10/16 06:01	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 06:01	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/10/16 06:01	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 06:01	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 06:01	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/10/16 06:01	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 06:01	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/10/16 06:01	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/10/16 06:01	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 06:01	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 06:01	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 06:01	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 06:01	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/10/16 06:01	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 06:01	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/10/16 06:01	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 06:01	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/10/16 06:01	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 06:01	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 06:01	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 06:01	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 06:01	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/10/16 06:01*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/10/16 06:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/10/16 06:01*	*1*
Toluene-d8 (Surr)	*115*		*75 - 122*		*03/10/16 06:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1

Client Sample ID: AL32-1(0-1)-030816
Date Collected: 03/08/16 11:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-16
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Acenaphthylene	**78**		35	4.6	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Anthracene	**27**	**J**	35	5.9	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Benzo[a]anthracene	**190**	*	35	4.7	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Benzo[a]pyrene	**350**	*	35	6.8	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Benzo[b]fluoranthene	**480**	*	35	7.6	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Benzo[g,h,i]perylene	**490**	*	35	11	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Benzo[k]fluoranthene	**160**	*	35	10	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Bis(2-ethylhexyl) phthalate	**130**	**J** *	180	64	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Carbazole	<180		180	88	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Chrysene	**210**	*	35	9.6	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Dibenz(a,h)anthracene	**110**	*	35	6.8	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Fluoranthene	**150**		35	6.5	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Fluorene	**5.4**	**J**	35	4.9	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1

Client Sample ID: AL32-1(0-1)-030816
Date Collected: 03/08/16 11:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-16
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**290**	*	35	9.1	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Phenanthrene	**94**		35	4.9	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Phenol	<180		180	78	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1
Pyrene	**540**	*	35	7.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*35 - 137*	*03/09/16 15:57*	*03/12/16 18:57*	*1*
2-Fluorobiphenyl	*103*		*25 - 119*	*03/09/16 15:57*	*03/12/16 18:57*	*1*
2-Fluorophenol	*100*		*25 - 110*	*03/09/16 15:57*	*03/12/16 18:57*	*1*
Nitrobenzene-d5	*94*		*25 - 115*	*03/09/16 15:57*	*03/12/16 18:57*	*1*
Phenol-d5	*101*		*31 - 110*	*03/09/16 15:57*	*03/12/16 18:57*	*1*
Terphenyl-d14	*193*	*X *	*36 - 134*	*03/09/16 15:57*	*03/12/16 18:57*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 20:54	1
Barium	**0.20**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 20:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 20:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 20:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:54	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:54	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 20:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 20:54	1
Manganese	**1.2**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 20:54	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:54	1
Zinc	**0.19**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 14:26	1
Barium	**0.20**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 14:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 14:26	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 14:26	1
Chromium	**0.058**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:26	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:26	1
Copper	**0.047**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:26	1
Iron	**54**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 14:26	1
Lead	**0.089**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 14:26	1
Manganese	**0.78**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:26	1
Nickel	**0.046**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 14:26	1

Client Sample ID: AL32-1(0-1)-030816
Date Collected: 03/08/16 11:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-16
Matrix: Solid
Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:26	1
Zinc	**0.28**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 14:26	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Arsenic	**3.5**		0.51	0.24	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Barium	**23**		0.51	0.094	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Beryllium	**0.22**		0.20	0.044	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Cadmium	**0.065**	**J**	0.10	0.030	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Calcium	**45000**	**B**	100	33	mg/Kg	☼	03/10/16 15:37	03/11/16 19:47	10
Chromium	**8.5**	**B**	2.6	0.088	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Cobalt	**3.9**		0.26	0.058	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Copper	**7.4**		0.51	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Iron	**6400**		10	3.9	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Lead	**30**		0.26	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Magnesium	**15000**	**B**	5.1	2.1	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Manganese	**200**		0.51	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Nickel	**8.6**	**B**	0.51	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Potassium	**580**		26	4.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Sodium	**390**	**B**	51	6.8	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Vanadium	**9.1**		0.26	0.075	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1
Zinc	**39**		1.0	0.32	mg/Kg	☼	03/10/16 15:37	03/11/16 15:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	16	8.5	ug/Kg	☼	03/12/16 17:00	03/13/16 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.42**		0.200	0.200	SU			03/10/16 12:07	1

Client Sample ID: AL32-5(0-1)-030816
Date Collected: 03/08/16 11:30
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-17
Matrix: Solid
Percent Solids: 85.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/10/16 06:25	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 06:25	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/10/16 06:25	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:25	1
Bromomethane	<5.8	*	5.8	2.2	ug/Kg	☼		03/10/16 06:25	1
Carbon disulfide	<5.8		5.8	2.2	ug/Kg	☼		03/10/16 06:25	1
Carbon tetrachloride	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 06:25	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:25	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/10/16 06:25	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 06:25	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:25	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:25	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 06:25	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/10/16 06:25	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:25	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/10/16 06:25	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 06:25	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/10/16 06:25	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 06:25	1
Ethylbenzene	<5.8		5.8	1.5	ug/Kg	☼		03/10/16 06:25	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/10/16 06:25	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/10/16 06:25	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 06:25	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:25	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:25	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:25	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/10/16 06:25	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:25	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/10/16 06:25	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/10/16 06:25	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 06:25	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:25	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 06:25	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 06:25	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:25	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/10/16 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/10/16 06:25*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/10/16 06:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*03/10/16 06:25*	*1*
Toluene-d8 (Surr)	*110*		*75 - 122*		*03/10/16 06:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1

Client Sample ID: AL32-5(0-1)-030816
Date Collected: 03/08/16 11:30
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-17
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2-Methylnaphthalene	**19**	**J**	37	6.9	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Acenaphthylene	**78**		37	4.9	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Anthracene	**28**	**J**	37	6.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Benzo[a]anthracene	**260**	*****	37	5.0	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Benzo[a]pyrene	**360**	*****	37	7.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Benzo[b]fluoranthene	**500**	*****	37	8.0	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Benzo[g,h,i]perylene	**420**	*****	37	12	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Benzo[k]fluoranthene	**190**	*****	37	11	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Bis(2-ethylhexyl) phthalate	**140**	**J ***	190	68	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Carbazole	<190		190	93	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Chrysene	**280**	*****	37	10	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Dibenz(a,h)anthracene	**81**	*****	37	7.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Fluoranthene	**160**		37	6.9	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108486-1

Client Sample ID: AL32-5(0-1)-030816
Date Collected: 03/08/16 11:30
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-17
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**300**	*	37	9.7	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Phenanthrene	**44**		37	5.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Phenol	<190		190	83	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1
Pyrene	**620**	*	37	7.4	ug/Kg	☼	03/09/16 15:57	03/12/16 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*49*		*35 - 137*	*03/09/16 15:57*	*03/12/16 19:21*	*1*
2-Fluorobiphenyl	*83*		*25 - 119*	*03/09/16 15:57*	*03/12/16 19:21*	*1*
2-Fluorophenol	*71*		*25 - 110*	*03/09/16 15:57*	*03/12/16 19:21*	*1*
Nitrobenzene-d5	*85*		*25 - 115*	*03/09/16 15:57*	*03/12/16 19:21*	*1*
Phenol-d5	*76*		*31 - 110*	*03/09/16 15:57*	*03/12/16 19:21*	*1*
Terphenyl-d14	*163*	*X *	*36 - 134*	*03/09/16 15:57*	*03/12/16 19:21*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 21:00	1
Barium	**0.19**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 21:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 21:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 21:00	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:00	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:00	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:00	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 21:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 21:00	1
Manganese	**0.63**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:00	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:00	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 21:00	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:00	1
Zinc	**0.20**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 14:32	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 14:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 14:32	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 14:32	1
Chromium	**0.058**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:32	1
Cobalt	**0.011**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:32	1
Copper	**0.037**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:32	1
Iron	**56**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 14:32	1
Lead	**0.054**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 14:32	1
Manganese	**0.51**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:32	1
Nickel	**0.035**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 14:32	1

Client Sample ID: AL32-5(0-1)-030816
Date Collected: 03/08/16 11:30
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-17
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:32	1
Zinc	**0.26**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 14:32	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Arsenic	**3.8**		0.56	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Barium	**53**		0.56	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Beryllium	**0.40**		0.22	0.048	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Cadmium	**0.23**		0.11	0.032	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Calcium	**29000**	**B**	11	3.6	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Chromium	**13**	**B**	2.8	0.096	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Cobalt	**5.9**		0.28	0.063	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Copper	**12**		0.56	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Iron	**9500**		11	4.3	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Lead	**41**		0.28	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Magnesium	**18000**	**B**	5.6	2.3	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Manganese	**420**		0.56	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Nickel	**12**	**B**	0.56	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Potassium	**720**		28	4.6	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Selenium	**0.49**	**J**	0.56	0.28	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Sodium	**550**	**B**	56	7.4	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Vanadium	**13**		0.28	0.082	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1
Zinc	**63**		1.1	0.35	mg/Kg	☼	03/10/16 15:37	03/11/16 15:42	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		19	10	ug/Kg	☼	03/12/16 17:00	03/13/16 17:50	1

General Chemistry

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

Client Sample ID: AL32-2(0-1)-030816
Date Collected: 03/08/16 11:35
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-18
Matrix: Solid
Percent Solids: 86.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/10/16 06:51	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 06:51	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/10/16 06:51	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:51	1
Bromomethane	<5.8	*	5.8	2.1	ug/Kg	☼		03/10/16 06:51	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 06:51	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:51	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:51	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/10/16 06:51	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 06:51	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:51	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:51	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 06:51	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/10/16 06:51	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:51	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/10/16 06:51	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 06:51	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/10/16 06:51	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 06:51	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:51	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/10/16 06:51	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/10/16 06:51	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 06:51	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:51	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:51	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:51	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/10/16 06:51	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 06:51	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/10/16 06:51	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:51	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 06:51	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 06:51	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 06:51	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 06:51	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 06:51	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/10/16 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/10/16 06:51*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/10/16 06:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*03/10/16 06:51*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/10/16 06:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1

Client Sample ID: AL32-2(0-1)-030816
Date Collected: 03/08/16 11:35
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-18
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Acenaphthene	**8.0**	**J**	37	6.7	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Acenaphthylene	**66**		37	4.9	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Anthracene	**73**		37	6.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Benzo[a]anthracene	**490**	*	37	5.0	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Benzo[a]pyrene	**510**	*	37	7.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Benzo[b]fluoranthene	**720**	*	37	8.1	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Benzo[g,h,i]perylene	**420**	*	37	12	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Benzo[k]fluoranthene	**310**	*	37	11	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Bis(2-ethylhexyl) phthalate	<190	*	190	68	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Carbazole	<190		190	93	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Chrysene	**510**	*	37	10	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Dibenz(a,h)anthracene	**55**	*	37	7.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Fluoranthene	**480**		37	6.9	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Fluorene	**12**	**J**	37	5.3	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1

Client Sample ID: AL32-2(0-1)-030816
Date Collected: 03/08/16 11:35
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-18
Matrix: Solid
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	**260**	*	37	9.7	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Naphthalene	**6.4**	J	37	5.8	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Phenanthrene	**230**		37	5.2	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Phenol	<190		190	83	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1
Pyrene	**1500**	*	37	7.4	ug/Kg	☼	03/09/16 15:57	03/12/16 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*35 - 137*	*03/09/16 15:57*	*03/12/16 19:45*	*1*
2-Fluorobiphenyl	*117*		*25 - 119*	*03/09/16 15:57*	*03/12/16 19:45*	*1*
2-Fluorophenol	*91*		*25 - 110*	*03/09/16 15:57*	*03/12/16 19:45*	*1*
Nitrobenzene-d5	*110*		*25 - 115*	*03/09/16 15:57*	*03/12/16 19:45*	*1*
Phenol-d5	*96*		*31 - 110*	*03/09/16 15:57*	*03/12/16 19:45*	*1*
Terphenyl-d14	*204*	*X *	*36 - 134*	*03/09/16 15:57*	*03/12/16 19:45*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 21:05	1
Barium	**0.21**	J	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 21:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 21:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 21:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:05	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:05	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 21:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 21:05	1
Manganese	**0.86**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 21:05	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:05	1
Zinc	**0.14**	J	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 14:39	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 14:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 14:39	1
Cadmium	**0.0022**	J ^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 14:39	1
Chromium	**0.095**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:39	1
Cobalt	**0.020**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:39	1
Copper	**0.064**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:39	1
Iron	**94**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 14:39	1
Lead	**0.22**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 14:39	1
Manganese	**1.1**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:39	1
Nickel	**0.055**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 14:39	1

Client Sample ID: AL32-2(0-1)-030816
Date Collected: 03/08/16 11:35
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-18
Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:39	1
Zinc	**0.68**		0.50	0.020	mg/L		03/13/16 15:00	03/14/16 14:39	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Arsenic	**3.0**		0.55	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Barium	**45**		0.55	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Beryllium	**0.36**		0.22	0.048	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Cadmium	**0.29**		0.11	0.032	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Calcium	**81000**	**B**	110	35	mg/Kg	☼	03/10/16 15:37	03/11/16 19:51	10
Chromium	**12**	**B**	2.8	0.095	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Cobalt	**4.5**		0.28	0.062	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Copper	**11**		0.55	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Iron	**8400**		11	4.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Lead	**69**		0.28	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Magnesium	**39000**	**B**	5.5	2.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Manganese	**410**		0.55	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Nickel	**10**	**B**	0.55	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Potassium	**710**		28	4.5	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Selenium	**0.35**	**J**	0.55	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Silver	<0.28		0.28	0.064	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Sodium	**1500**	**B**	55	7.3	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Vanadium	**10**		0.28	0.080	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1
Zinc	**74**		1.1	0.35	mg/Kg	☼	03/10/16 15:37	03/11/16 15:47	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**26**		17	9.1	ug/Kg	☼	03/12/16 17:00	03/13/16 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.14**		0.200	0.200	SU			03/10/16 12:13	1

Client Sample ID: AL32-6(0-1)-030816
Date Collected: 03/08/16 11:45
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-19
Matrix: Solid
Percent Solids: 89.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/10/16 07:16	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 07:16	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/10/16 07:16	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 07:16	1
Bromomethane	<5.6	*	5.6	2.1	ug/Kg	☼		03/10/16 07:16	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 07:16	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 07:16	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 07:16	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/10/16 07:16	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 07:16	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 07:16	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 07:16	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 07:16	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/10/16 07:16	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 07:16	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/10/16 07:16	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 07:16	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 07:16	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 07:16	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 07:16	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 07:16	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/10/16 07:16	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 07:16	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 07:16	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 07:16	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 07:16	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/10/16 07:16	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 07:16	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/10/16 07:16	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 07:16	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 07:16	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 07:16	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 07:16	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 07:16	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 07:16	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/10/16 07:16*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/10/16 07:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/10/16 07:16*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/10/16 07:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1

Client Sample ID: AL32-6(0-1)-030816
Date Collected: 03/08/16 11:45
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-19
Matrix: Solid
Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Acenaphthene	**7.2**	**J**	35	6.3	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Acenaphthylene	**110**		35	4.6	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Anthracene	**60**		35	5.9	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Benzo[a]anthracene	**390**	*	35	4.7	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Benzo[a]pyrene	**600**	*	35	6.8	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Benzo[b]fluoranthene	**770**	*	35	7.6	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Benzo[g,h,i]perylene	**560**	*	35	11	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Benzo[k]fluoranthene	**310**	*	35	10	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Bis(2-ethylhexyl) phthalate	<180	*	180	64	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Carbazole	<180		180	88	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Chrysene	**400**	*	35	9.6	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Fluoranthene	**300**		35	6.5	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Fluorene	**14**	**J**	35	4.9	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1

Client Sample ID: AL32-6(0-1)-030816
Date Collected: 03/08/16 11:45
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-19
Matrix: Solid
Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**420**	*	35	9.1	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Isophorone	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Phenanthrene	**190**		35	4.9	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Phenol	<180		180	78	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1
Pyrene	**1000**	*	35	7.0	ug/Kg	☼	03/09/16 15:57	03/12/16 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*35 - 137*	*03/09/16 15:57*	*03/12/16 20:09*	*1*
2-Fluorobiphenyl	*113*		*25 - 119*	*03/09/16 15:57*	*03/12/16 20:09*	*1*
2-Fluorophenol	*101*		*25 - 110*	*03/09/16 15:57*	*03/12/16 20:09*	*1*
Nitrobenzene-d5	*103*		*25 - 115*	*03/09/16 15:57*	*03/12/16 20:09*	*1*
Phenol-d5	*98*		*31 - 110*	*03/09/16 15:57*	*03/12/16 20:09*	*1*
Terphenyl-d14	*202*	*X *	*36 - 134*	*03/09/16 15:57*	*03/12/16 20:09*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 21:10	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 21:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 21:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 21:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:10	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:10	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 21:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 21:10	1
Manganese	**0.80**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 21:10	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:10	1
Zinc	**0.13**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 15:02	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 15:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 15:02	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 15:02	1
Chromium	**0.030**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:02	1
Copper	**0.023**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:02	1
Iron	**30**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 15:02	1
Lead	**0.065**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 15:02	1
Manganese	**0.50**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:02	1
Nickel	**0.020**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 15:02	1

Client Sample ID: AL32-6(0-1)-030816
Date Collected: 03/08/16 11:45
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-19
Matrix: Solid
Percent Solids: 89.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:02	1
Zinc	**0.18**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 15:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.38**	**J**	1.1	0.22	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Arsenic	**2.4**		0.53	0.24	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Barium	**26**		0.53	0.096	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Beryllium	**0.27**		0.21	0.046	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Cadmium	**0.11**		0.11	0.030	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Calcium	**89000**	**B**	110	34	mg/Kg	☼	03/10/16 15:37	03/11/16 19:55	10
Chromium	**7.1**	**B**	2.6	0.090	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Cobalt	**3.0**		0.26	0.059	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Copper	**6.6**		0.53	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Iron	**6200**		11	4.1	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Lead	**29**		0.26	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Magnesium	**44000**	**B**	5.3	2.1	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Manganese	**310**		0.53	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Nickel	**7.2**	**B**	0.53	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Potassium	**640**		26	4.3	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Sodium	**270**	**B**	53	6.9	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Vanadium	**8.6**		0.26	0.077	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1
Zinc	**37**		1.1	0.33	mg/Kg	☼	03/10/16 15:37	03/11/16 15:52	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**22**		17	8.9	ug/Kg	☼	03/12/16 17:00	03/13/16 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.68**		0.200	0.200	SU			03/10/16 12:15	1

Client Sample ID: AL32-3(0-1)-030816
Date Collected: 03/08/16 11:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-20
Matrix: Solid
Percent Solids: 86.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/10/16 07:41	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 07:41	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/10/16 07:41	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 07:41	1
Bromomethane	<5.8	*	5.8	2.1	ug/Kg	☼		03/10/16 07:41	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 07:41	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 07:41	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 07:41	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/10/16 07:41	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 07:41	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 07:41	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 07:41	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 07:41	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/10/16 07:41	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 07:41	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/10/16 07:41	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/10/16 07:41	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/10/16 07:41	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 07:41	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 07:41	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/10/16 07:41	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/10/16 07:41	1
Methyl Ethyl Ketone	<5.8		5.8	2.0	ug/Kg	☼		03/10/16 07:41	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 07:41	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 07:41	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 07:41	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/10/16 07:41	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/10/16 07:41	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/10/16 07:41	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 07:41	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 07:41	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/10/16 07:41	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/10/16 07:41	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/10/16 07:41	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/10/16 07:41	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/10/16 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/10/16 07:41*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/10/16 07:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*		*03/10/16 07:41*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/10/16 07:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<930		930	200	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
1,2-Dichlorobenzene	<930		930	220	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
1,3-Dichlorobenzene	<930		930	210	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
1,4-Dichlorobenzene	<930		930	240	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2,2'-oxybis[1-chloropropane]	<930		930	210	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5

Client Sample ID: AL32-3(0-1)-030816
Date Collected: 03/08/16 11:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-20
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1800		1800	420	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2,4,6-Trichlorophenol	<1800		1800	630	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2,4-Dichlorophenol	<1800		1800	440	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2,4-Dimethylphenol	<1800		1800	700	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2,4-Dinitrophenol	<3700		3700	3200	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2,4-Dinitrotoluene	<930		930	290	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2,6-Dinitrotoluene	<930		930	360	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2-Chloronaphthalene	<930		930	200	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2-Chlorophenol	<930		930	310	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2-Methylnaphthalene	<180		180	34	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2-Methylphenol	<930		930	300	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2-Nitroaniline	<930		930	250	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
2-Nitrophenol	<1800		1800	440	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
3 & 4 Methylphenol	<930		930	310	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
3,3'-Dichlorobenzidine	<930	*	930	260	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
3-Nitroaniline	<1800		1800	570	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
4,6-Dinitro-2-methylphenol	<3700	*	3700	1500	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
4-Bromophenyl phenyl ether	<930	*	930	240	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
4-Chloro-3-methylphenol	<1800		1800	630	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
4-Chloroaniline	<3700		3700	870	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
4-Chlorophenyl phenyl ether	<930		930	220	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
4-Nitroaniline	<1800		1800	770	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
4-Nitrophenol	<3700		3700	1800	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Acenaphthene	<180		180	33	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Acenaphthylene	**82**	**J**	180	24	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Anthracene	**120**	**J ***	180	31	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Benzo[a]anthracene	**950**	*	180	25	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Benzo[a]pyrene	**1000**	*	180	36	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Benzo[b]fluoranthene	**1500**	*	180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Benzo[g,h,i]perylene	**1500**	*	180	59	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Benzo[k]fluoranthene	**560**	*	180	54	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Bis(2-chloroethoxy)methane	<930		930	190	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Bis(2-chloroethyl)ether	<930		930	280	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Bis(2-ethylhexyl) phthalate	<930	*	930	340	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Butyl benzyl phthalate	<930	*	930	350	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Carbazole	<930	*	930	460	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Chrysene	**960**	*	180	50	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Dibenz(a,h)anthracene	**240**	*	180	36	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Dibenzofuran	<930		930	220	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Diethyl phthalate	<930		930	310	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Dimethyl phthalate	<930		930	240	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Di-n-butyl phthalate	<930	*	930	280	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Di-n-octyl phthalate	<930	*	930	300	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Fluoranthene	**950**	*	180	34	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Fluorene	<180		180	26	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Hexachlorobenzene	<370	*	370	43	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Hexachlorobutadiene	<930		930	290	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Hexachlorocyclopentadiene	<3700		3700	1100	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Hexachloroethane	<930		930	280	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5

Client Sample ID: AL32-3(0-1)-030816
Date Collected: 03/08/16 11:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-20
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**870**	*	180	48	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Isophorone	<930		930	210	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Naphthalene	<180		180	28	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Nitrobenzene	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
N-Nitrosodi-n-propylamine	<370		370	230	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
N-Nitrosodiphenylamine	<930	*	930	220	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Pentachlorophenol	<3700	*	3700	3000	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Phenanthrene	**610**	*	180	26	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Phenol	<930		930	410	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5
Pyrene	**3500**	*	180	37	ug/Kg	☼	03/09/16 15:57	03/12/16 20:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*35 - 137*	*03/09/16 15:57*	*03/12/16 20:33*	*5*
2-Fluorobiphenyl	*99*		*25 - 119*	*03/09/16 15:57*	*03/12/16 20:33*	*5*
2-Fluorophenol	*104*		*25 - 110*	*03/09/16 15:57*	*03/12/16 20:33*	*5*
Nitrobenzene-d5	*98*		*25 - 115*	*03/09/16 15:57*	*03/12/16 20:33*	*5*
Phenol-d5	*104*		*31 - 110*	*03/09/16 15:57*	*03/12/16 20:33*	*5*
Terphenyl-d14	*230*	*X *	*36 - 134*	*03/09/16 15:57*	*03/12/16 20:33*	*5*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 21:16	1
Barium	**0.24**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 21:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 21:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 21:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:16	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:16	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 21:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 21:16	1
Manganese	**0.74**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 21:16	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 21:16	1
Zinc	**0.11**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 15:09	1
Barium	**0.40**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 15:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 15:09	1
Cadmium	**0.0023**	**J ^**	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 15:09	1
Chromium	**0.027**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:09	1
Copper	**0.026**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:09	1
Iron	**19**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 15:09	1
Lead	**0.085**	**F1**	0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 15:09	1
Manganese	**0.81**	**F1**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:09	1
Nickel	**0.035**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 15:09	1

Client Sample ID: AL32-3(0-1)-030816
Date Collected: 03/08/16 11:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-20
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 15:09	1
Zinc	**0.49**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 15:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.53**	**J F1**	1.1	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Arsenic	**3.5**		0.55	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Barium	**37**	**F2**	0.55	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Beryllium	**0.35**		0.22	0.048	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Cadmium	**0.24**		0.11	0.032	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Calcium	**65000**	**B F2**	110	36	mg/Kg	☼	03/10/16 15:37	03/11/16 19:59	10
Chromium	**31**	**F1 B**	2.8	0.095	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Cobalt	**4.6**		0.28	0.062	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Copper	**12**		0.55	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Iron	**8200**		11	4.3	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Lead	**170**	**F2**	0.28	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Magnesium	**31000**	**F2 B**	5.5	2.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Manganese	**340**		0.55	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Nickel	**11**	**B**	0.55	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Potassium	**710**	**F1**	28	4.5	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Sodium	**1500**	**F1 B**	55	7.3	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Vanadium	**11**		0.28	0.081	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1
Zinc	**70**	**F1**	1.1	0.35	mg/Kg	☼	03/10/16 15:37	03/11/16 15:57	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**23**		18	9.3	ug/Kg	☼	03/12/16 17:00	03/13/16 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.23**		0.200	0.200	SU			03/10/16 12:18	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108486-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: S. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108486

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 3.2/1.6

Client: Weston
Client Project #:
Project Name: IDot 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total metals	TCLP / SPLP metals	pH					Comments
1		CB-1(0-1)-030816	3/8/16	0835	2	S	X	X	X	X	X					
2		CB-1(0-1)-030816D	3/8/16	0835	2	S	X	X	X	X	X					
3		R41-1(0-1)-030816	3/8/16	0900	2	S	X	X	X	X	X					
4		R42-1(0-1)-030816	3/8/16	0914	2	S	X	X	X	X	X					
5		R41-2(0-1)-030816	3/8/16	0922	2	S	X	X	X	X	X					
6		R42-2(0-1)-030816	3/8/16	0934	2	S	X	X	X	X	X					
7		R41-3(0-1)-030816	3/8/16	0940	2	S	X	X	X	X	X					
8		R42-3(0-1)-030816	3/8/16	0953	2	S	X	X	X	X	X					
9		R41-4(0-1)-030816	3/8/16	1002	2	S	X	X	X	X	X					
10		R42-4(0-1)-030816	3/8/16	1013	2	S	X	X	X	X	X					

Preservative Key
1° 0 4°
4° 4°
4° 4°
1 to 4°

500-108486 COC

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	Company	Date	Time	Received By	Company	Date	Time
[illegible]	Weston	3/8/16	1540	[illegible]	TA	3/8/16	1540
[illegible]	TA	3/8/16	1645	[illegible]	TA-1+1	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lincolnshire, IL 60069
Phone: 224-364-7252
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108486
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
11		SMe-1(0-1)-030816	3/8/16	1044	2	S		X	X	X	X	X					
12		R39-1(0-1)-030816	3/8/16	1055	2	S		X	X	X	X	X					
13		R37-1(0-1)-030816	3/8/16	1102	2	S		X	X	X	X	X					
14		R37-1(0-1)-030816D	3/8/16	1102	2	S		X	X	X	X	X					
15		R36-1(0-1)-030816	3/8/16	1109	2	S		X	X	X	X	X					
16		AL32-1(0-1)-030816	3/8/16	1117	2	S		X	X	X	X	X					
17		AL32-5(0-1)-030816	3/8/16	1130	2	S		X	X	X	X	X					
18		AL32-2(0-1)-030816	3/8/16	1135	2	S		X	X	X	X	X					
19		AL32-6(0-1)-030816	3/8/16	1145	2	S		X	X	X	X	X					
20		AL32-3(0-1)-030816	3/8/16	1153	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TAL-IRL	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/17/2016

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: 500-108487-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/21/2016 2:32:26 PM

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

Client Sample ID: AL32-7(0-4)-030816
Date Collected: 03/08/16 12:15
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-1
Matrix: Solid
Percent Solids: 89.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 14:46	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:46	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/09/16 14:46	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:46	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 14:46	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 14:46	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:46	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:46	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/09/16 14:46	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:46	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:46	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:46	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:46	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/09/16 14:46	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:46	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/09/16 14:46	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 14:46	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 14:46	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 14:46	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 14:46	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 14:46	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 14:46	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 14:46	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:46	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:46	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:46	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/09/16 14:46	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:46	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/09/16 14:46	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 14:46	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 14:46	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:46	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:46	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 14:46	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:46	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 14:46*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/09/16 14:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/09/16 14:46*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 14:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1

Client Sample ID: AL32-7(0-4)-030816
Date Collected: 03/08/16 12:15
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-1
Matrix: Solid
Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2,4-Dinitrophenol	<710	F1	710	620	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2-Methylnaphthalene	**6.8**	**J**	35	6.4	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2-Methylphenol	<180	F1 F2	180	56	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
3,3'-Dichlorobenzidine	<180	* F1	180	49	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
4,6-Dinitro-2-methylphenol	<710	F1	710	280	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
4-Bromophenyl phenyl ether	<180	F1	180	46	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Acenaphthylene	**14**	**J**	35	4.6	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Anthracene	**7.0**	**J**	35	5.8	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Benzo[a]anthracene	**58**	*****	35	4.7	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Benzo[a]pyrene	**73**	*****	35	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Benzo[b]fluoranthene	**110**	***** **F1**	35	7.6	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Benzo[g,h,i]perylene	**57**	*****	35	11	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Benzo[k]fluoranthene	**52**	*****	35	10	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Bis(2-ethylhexyl) phthalate	**150**	**J** ***** **F1**	180	64	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Butyl benzyl phthalate	<180	* F1	180	67	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Carbazole	<180		180	87	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Chrysene	**68**	*****	35	9.5	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Di-n-octyl phthalate	<180	F1	180	57	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Fluoranthene	**61**	**F1**	35	6.5	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Hexachlorocyclopentadiene	<710	F1	710	200	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Hexachloroethane	<180	F1	180	53	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1

Client Sample ID: AL32-7(0-4)-030816
Date Collected: 03/08/16 12:15
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-1
Matrix: Solid
Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**56**	*	35	9.1	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Isophorone	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
N-Nitrosodiphenylamine	<180	F1	180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Pentachlorophenol	<710	F1	710	560	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Phenanthrene	**43**		35	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Phenol	<180		180	78	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1
Pyrene	**210**	* F1	35	7.0	ug/Kg	☼	03/10/16 15:26	03/14/16 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*35 - 137*	*03/10/16 15:26*	*03/14/16 16:41*	*1*
2-Fluorobiphenyl	*94*		*25 - 119*	*03/10/16 15:26*	*03/14/16 16:41*	*1*
2-Fluorophenol	*100*		*25 - 110*	*03/10/16 15:26*	*03/14/16 16:41*	*1*
Nitrobenzene-d5	*80*		*25 - 115*	*03/10/16 15:26*	*03/14/16 16:41*	*1*
Phenol-d5	*97*		*31 - 110*	*03/10/16 15:26*	*03/14/16 16:41*	*1*
Terphenyl-d14	*246*	*X	*36 - 134*	*03/10/16 15:26*	*03/14/16 16:41*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:01	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:01	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:01	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:01	1
Manganese	**1.1**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:01	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:01	1
Zinc	**0.31**	J B	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 16:10	1
Barium	**0.22**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 16:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 16:10	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 16:10	1
Chromium	**0.048**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:10	1
Cobalt	**0.012**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:10	1
Copper	**0.042**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:10	1
Iron	**51**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 16:10	1
Lead	**0.060**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 16:10	1
Manganese	**0.57**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:10	1
Nickel	**0.038**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 16:10	1

Client Sample ID: AL32-7(0-4)-030816
Date Collected: 03/08/16 12:15
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-1
Matrix: Solid
Percent Solids: 89.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:10	1
Zinc	**0.47**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 16:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Arsenic	**3.9**		0.55	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Barium	**48**		0.55	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Beryllium	**0.29**		0.22	0.048	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Cadmium	**0.35**		0.11	0.032	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Calcium	**93000**	**B**	110	36	mg/Kg	☼	03/10/16 15:40	03/11/16 17:04	10
Chromium	**7.8**	**B**	0.55	0.095	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Cobalt	**4.2**		0.28	0.062	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Copper	**11**		0.55	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Iron	**8300**	**B**	11	4.3	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Lead	**14**		0.28	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Magnesium	**28000**	**B**	5.5	2.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Manganese	**320**		0.55	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Nickel	**10**		0.55	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Potassium	**650**		28	4.5	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Sodium	**410**		55	7.3	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Vanadium	**9.8**		0.28	0.081	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1
Zinc	**85**		1.1	0.35	mg/Kg	☼	03/10/16 15:40	03/11/16 15:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**12**	**J**	16	8.4	ug/Kg	☼	03/12/16 17:00	03/13/16 19:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.30**		0.200	0.200	SU			03/10/16 12:21	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Client Sample ID: AL32-8(0-4)-030816
Date Collected: 03/08/16 13:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-2
Matrix: Solid
Percent Solids: 86.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 15:12	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 15:12	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/09/16 15:12	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:12	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 15:12	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 15:12	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:12	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:12	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/09/16 15:12	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 15:12	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:12	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:12	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 15:12	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/09/16 15:12	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:12	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/09/16 15:12	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 15:12	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/09/16 15:12	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 15:12	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:12	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/09/16 15:12	1
Methylene Chloride	<5.8		5.8	4.3	ug/Kg	☼		03/09/16 15:12	1
Methyl Ethyl Ketone	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 15:12	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:12	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:12	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 15:12	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/09/16 15:12	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:12	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 15:12	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:12	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 15:12	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 15:12	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 15:12	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 15:12	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:12	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/09/16 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 15:12*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/09/16 15:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/09/16 15:12*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 15:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1

Client Sample ID: AL32-8(0-4)-030816
Date Collected: 03/08/16 13:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-2
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2-Methylnaphthalene	**8.5**	**J**	37	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Acenaphthene	**11**	**J**	37	6.6	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Acenaphthylene	**57**		37	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Anthracene	**39**		37	6.2	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Benzo[a]anthracene	**290**	*****	37	5.0	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Benzo[a]pyrene	**350**	*****	37	7.1	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Benzo[b]fluoranthene	**620**	*****	37	8.0	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Benzo[g,h,i]perylene	**240**	*****	37	12	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Benzo[k]fluoranthene	**180**	*****	37	11	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Bis(2-ethylhexyl) phthalate	**180**	**J ***	190	67	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Chrysene	**370**	*****	37	10	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Dibenz(a,h)anthracene	<37	*	37	7.1	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Fluoranthene	**320**		37	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Fluorene	**17**	**J**	37	5.2	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1

Client Sample ID: AL32-8(0-4)-030816
Date Collected: 03/08/16 13:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-2
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**270**	*	37	9.6	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Naphthalene	**5.9**	J	37	5.7	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Phenanthrene	**250**		37	5.1	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1
Pyrene	**1300**	*	37	7.3	ug/Kg	☼	03/10/16 15:26	03/14/16 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*35 - 137*	*03/10/16 15:26*	*03/14/16 19:06*	*1*
2-Fluorobiphenyl	*81*		*25 - 119*	*03/10/16 15:26*	*03/14/16 19:06*	*1*
2-Fluorophenol	*80*		*25 - 110*	*03/10/16 15:26*	*03/14/16 19:06*	*1*
Nitrobenzene-d5	*65*		*25 - 115*	*03/10/16 15:26*	*03/14/16 19:06*	*1*
Phenol-d5	*80*		*31 - 110*	*03/10/16 15:26*	*03/14/16 19:06*	*1*
Terphenyl-d14	*235*	*X *	*36 - 134*	*03/10/16 15:26*	*03/14/16 19:06*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:22	1
Barium	**0.37**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:22	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:22	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:22	1
Manganese	**0.83**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:22	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:22	1
Zinc	**0.29**	J B	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 16:52	1
Barium	**0.13**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 16:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 16:52	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 16:52	1
Chromium	**0.024**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:52	1
Copper	**0.024**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:52	1
Iron	**22**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 16:52	1
Lead	**0.087**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 16:52	1
Manganese	**0.38**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:52	1
Nickel	**0.015**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 16:52	1

Client Sample ID: AL32-8(0-4)-030816
Date Collected: 03/08/16 13:17
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-2
Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:52	1
Zinc	**0.51**	**B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 16:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.23**	**J**	1.1	0.23	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Arsenic	**3.5**		0.57	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Barium	**52**		0.57	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Beryllium	**0.38**		0.23	0.049	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Cadmium	**0.31**		0.11	0.033	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Calcium	**61000**	**B**	110	36	mg/Kg	☼	03/10/16 15:40	03/11/16 17:08	10
Chromium	**15**	**B**	0.57	0.097	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Cobalt	**4.9**		0.28	0.064	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Copper	**13**		0.57	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Iron	**9100**	**B**	11	4.4	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Lead	**80**		0.28	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Magnesium	**23000**	**B**	5.7	2.3	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Manganese	**370**		0.57	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Nickel	**10**		0.57	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Potassium	**780**		28	4.6	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Selenium	**0.29**	**J**	0.57	0.28	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Sodium	**350**		57	7.5	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Vanadium	**11**		0.28	0.083	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1
Zinc	**71**		1.1	0.36	mg/Kg	☼	03/10/16 15:40	03/11/16 15:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**24**		18	9.6	ug/Kg	☼	03/12/16 17:00	03/13/16 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.82**		0.200	0.200	SU			03/10/16 12:24	1

Client Sample ID: AL32-4(0-1)-030816
Date Collected: 03/08/16 13:22
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-3
Matrix: Solid
Percent Solids: 86.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 15:38	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 15:38	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/09/16 15:38	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:38	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 15:38	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 15:38	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:38	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:38	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/09/16 15:38	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 15:38	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:38	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:38	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 15:38	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/09/16 15:38	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:38	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/09/16 15:38	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 15:38	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/09/16 15:38	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 15:38	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:38	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/09/16 15:38	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/09/16 15:38	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 15:38	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:38	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:38	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:38	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/09/16 15:38	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 15:38	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 15:38	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:38	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 15:38	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 15:38	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 15:38	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 15:38	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 15:38	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/09/16 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 15:38*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/09/16 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/09/16 15:38*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 15:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1

Client Sample ID: AL32-4(0-1)-030816
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Lab Sample ID: 500-108487-3
Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Acenaphthene	**44**		37	6.7	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Acenaphthylene	**72**		37	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Anthracene	**110**		37	6.2	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Benzo[a]anthracene	**620**		37	5.0	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Benzo[a]pyrene	**770**	*	37	7.2	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Benzo[b]fluoranthene	**1400**	*	37	8.0	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Benzo[g,h,i]perylene	**340**	*	37	12	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Benzo[k]fluoranthene	**470**	*	37	11	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Bis(2-ethylhexyl) phthalate	**120**	J	190	68	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Carbazole	<190		190	93	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Chrysene	**710**		37	10	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Dibenz(a,h)anthracene	**65**	*	37	7.2	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Fluoranthene	**1600**		37	6.9	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Fluorene	**35**	J	37	5.2	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1

Client Sample ID: AL32-4(0-1)-030816
Date Collected: 03/08/16 13:22
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Lab Sample ID: 500-108487-3
Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**400**	*	37	9.7	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Naphthalene	**7.6**	J	37	5.7	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Phenanthrene	**760**		37	5.2	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Phenol	<190		190	83	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1
Pyrene	**2300**		37	7.4	ug/Kg	☼	03/10/16 15:26	03/14/16 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*35 - 137*	*03/10/16 15:26*	*03/14/16 13:17*	*1*
2-Fluorobiphenyl	*81*		*25 - 119*	*03/10/16 15:26*	*03/14/16 13:17*	*1*
2-Fluorophenol	*98*		*25 - 110*	*03/10/16 15:26*	*03/14/16 13:17*	*1*
Nitrobenzene-d5	*69*		*25 - 115*	*03/10/16 15:26*	*03/14/16 13:17*	*1*
Phenol-d5	*93*		*31 - 110*	*03/10/16 15:26*	*03/14/16 13:17*	*1*
Terphenyl-d14	*144*	*X*	*36 - 134*	*03/10/16 15:26*	*03/14/16 13:17*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:28	1
Barium	**0.33**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:28	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:28	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:28	1
Manganese	**0.76**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:28	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:28	1
Zinc	**0.11**	J B	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.062**		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 16:59	1
Barium	**0.66**		0.50	0.050	mg/L		03/13/16 15:00	03/14/16 16:59	1
Beryllium	**0.0070**		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 16:59	1
Cadmium	**0.0045**	J ^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 16:59	1
Chromium	**0.18**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:59	1
Cobalt	**0.038**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:59	1
Copper	**0.15**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:59	1
Iron	**180**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 16:59	1
Lead	**0.24**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 16:59	1
Manganese	**1.7**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:59	1
Nickel	**0.14**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 16:59	1

Client Sample ID: AL32-4(0-1)-030816
Date Collected: 03/08/16 13:22
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Lab Sample ID: 500-108487-3
Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 16:59	1
Zinc	**0.77**	**B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 16:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Arsenic	**5.6**		0.53	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Barium	**46**		0.53	0.097	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Beryllium	**0.42**		0.21	0.046	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Cadmium	**0.24**		0.11	0.031	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Calcium	**81000**	**B**	110	34	mg/Kg	☼	03/10/16 15:40	03/11/16 17:12	10
Chromium	**27**	**B**	0.53	0.092	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Cobalt	**6.9**		0.27	0.060	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Copper	**12**		0.53	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Iron	**12000**	**B**	11	4.1	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Lead	**120**		0.27	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Magnesium	**35000**	**B**	5.3	2.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Manganese	**470**		0.53	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Nickel	**15**		0.53	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Potassium	**960**		27	4.3	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Selenium	**0.36**	**J**	0.53	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Sodium	**1600**		53	7.0	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Vanadium	**14**		0.27	0.078	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1
Zinc	**70**		1.1	0.34	mg/Kg	☼	03/10/16 15:40	03/11/16 15:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**31**		18	9.5	ug/Kg	☼	03/12/16 17:00	03/13/16 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.56**		0.200	0.200	SU			03/10/16 12:26	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Client Sample ID: AL32-11(0-1)-030816
Date Collected: 03/08/16 14:57
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-12
Matrix: Solid
Percent Solids: 88.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/09/16 19:33	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 19:33	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/09/16 19:33	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 19:33	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 19:33	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 19:33	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 19:33	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 19:33	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/09/16 19:33	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 19:33	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 19:33	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 19:33	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 19:33	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/09/16 19:33	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 19:33	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/09/16 19:33	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 19:33	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 19:33	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 19:33	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 19:33	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/09/16 19:33	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/09/16 19:33	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 19:33	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 19:33	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 19:33	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 19:33	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/09/16 19:33	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 19:33	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 19:33	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 19:33	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 19:33	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 19:33	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 19:33	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 19:33	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 19:33	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 19:33*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/09/16 19:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/09/16 19:33*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 19:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Client Sample ID: AL32-11(0-1)-030816
Date Collected: 03/08/16 14:57
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-12
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Acenaphthylene	**17**	**J**	37	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Anthracene	**7.0**	**J**	37	6.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Benzo[a]anthracene	**87**	*****	37	5.0	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Benzo[a]pyrene	**130**	*****	37	7.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Benzo[b]fluoranthene	**200**	*****	37	8.0	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Benzo[g,h,i]perylene	**100**	*****	37	12	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Benzo[k]fluoranthene	**93**	*****	37	11	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Bis(2-ethylhexyl) phthalate	**160**	**J ***	190	68	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Carbazole	<190		190	93	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Chrysene	**100**	*****	37	10	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Fluoranthene	**61**		37	6.9	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1

Client Sample ID: AL32-11(0-1)-030816
Date Collected: 03/08/16 14:57
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-12
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**13**	**J ***	37	9.6	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Phenanthrene	**21**	**J**	37	5.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1
Pyrene	**240**	*****	37	7.4	ug/Kg	☼	03/10/16 15:26	03/14/16 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*35 - 137*	*03/10/16 15:26*	*03/14/16 18:37*	*1*
2-Fluorobiphenyl	*85*		*25 - 119*	*03/10/16 15:26*	*03/14/16 18:37*	*1*
2-Fluorophenol	*87*		*25 - 110*	*03/10/16 15:26*	*03/14/16 18:37*	*1*
Nitrobenzene-d5	*71*		*25 - 115*	*03/10/16 15:26*	*03/14/16 18:37*	*1*
Phenol-d5	*85*		*31 - 110*	*03/10/16 15:26*	*03/14/16 18:37*	*1*
Terphenyl-d14	*255*	*X **	*36 - 134*	*03/10/16 15:26*	*03/14/16 18:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:23	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:23	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:23	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:23	1
Manganese	**0.81**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:23	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:23	1
Zinc	**0.15**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.028**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:16	1
Barium	**0.42**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:16	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:16	1
Chromium	**0.089**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:16	1
Cobalt	**0.025**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:16	1
Copper	**0.070**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:16	1
Iron	**96**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:16	1
Lead	**0.15**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:16	1
Manganese	**1.5**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:16	1
Nickel	**0.066**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:16	1

Client Sample ID: AL32-11(0-1)-030816
Date Collected: 03/08/16 14:57
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-12
Matrix: Solid
Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:16	1
Zinc	**1.0**	**B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J**	1.0	0.21	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Arsenic	**3.4**		0.52	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Barium	**78**		0.52	0.095	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Beryllium	**0.35**		0.21	0.045	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Cadmium	**0.16**		0.10	0.030	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Calcium	**43000**	**B**	100	33	mg/Kg	☼	03/10/16 15:40	03/11/16 20:35	10
Chromium	**12**	**B**	0.52	0.089	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Cobalt	**5.0**		0.26	0.059	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Copper	**8.3**		0.52	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Iron	**8700**	**B**	10	4.0	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Lead	**46**		0.26	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Magnesium	**21000**	**B**	5.2	2.1	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Manganese	**390**		0.52	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Nickel	**9.6**		0.52	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Potassium	**660**		26	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Sodium	**1200**		52	6.8	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Vanadium	**11**		0.26	0.076	mg/Kg	☼	03/10/16 15:40	03/11/16 16:28	1
Zinc	**39**		10	3.3	mg/Kg	☼	03/10/16 15:40	03/11/16 20:35	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**	**J**	19	9.9	ug/Kg	☼	03/12/16 17:00	03/13/16 20:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.83**		0.200	0.200	SU			03/10/16 12:53	1

Client Sample ID: AL32-9(0-1)-030816
Date Collected: 03/08/16 15:04
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-13
Matrix: Solid
Percent Solids: 90.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 22:08	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 22:08	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/09/16 22:08	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 22:08	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 22:08	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 22:08	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 22:08	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 22:08	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/09/16 22:08	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 22:08	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 22:08	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 22:08	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 22:08	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/09/16 22:08	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 22:08	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/09/16 22:08	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 22:08	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 22:08	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/09/16 22:08	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 22:08	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/09/16 22:08	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/09/16 22:08	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 22:08	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 22:08	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 22:08	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 22:08	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/09/16 22:08	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 22:08	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/09/16 22:08	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 22:08	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/09/16 22:08	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 22:08	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 22:08	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/09/16 22:08	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 22:08	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/09/16 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/09/16 22:08*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/09/16 22:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*		*03/09/16 22:08*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 22:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Client Sample ID: AL32-9(0-1)-030816
Date Collected: 03/08/16 15:04
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-13
Matrix: Solid
Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Acenaphthylene	**7.5**	**J**	35	4.6	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Benzo[a]anthracene	**71**	*	35	4.7	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Benzo[a]pyrene	**130**	*	35	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Benzo[b]fluoranthene	**200**	*	35	7.6	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Benzo[g,h,i]perylene	**75**	*	35	11	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Benzo[k]fluoranthene	**86**	*	35	10	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Bis(2-ethylhexyl) phthalate	**130**	**J ***	180	64	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Carbazole	<180		180	88	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Chrysene	**87**	*	35	9.6	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Fluoranthene	**68**		35	6.5	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1

Client Sample ID: AL32-9(0-1)-030816
Date Collected: 03/08/16 15:04
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-13
Matrix: Solid
Percent Solids: 90.5

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	**78**	*	35	9.1	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Isophorone	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Phenanthrene	**15**	J	35	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Phenol	<180		180	78	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1
Pyrene	**200**	*	35	7.0	ug/Kg	☼	03/10/16 15:26	03/14/16 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*35 - 137*	*03/10/16 15:26*	*03/14/16 15:14*	*1*
2-Fluorobiphenyl	*83*		*25 - 119*	*03/10/16 15:26*	*03/14/16 15:14*	*1*
2-Fluorophenol	*91*		*25 - 110*	*03/10/16 15:26*	*03/14/16 15:14*	*1*
Nitrobenzene-d5	*76*		*25 - 115*	*03/10/16 15:26*	*03/14/16 15:14*	*1*
Phenol-d5	*86*		*31 - 110*	*03/10/16 15:26*	*03/14/16 15:14*	*1*
Terphenyl-d14	*203*	*X *	*36 - 134*	*03/10/16 15:26*	*03/14/16 15:14*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:28	1
Barium	**0.36**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:28	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:28	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:28	1
Manganese	**1.2**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:28	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:28	1
Zinc	**0.18**	J B	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.048**	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:22	1
Barium	**0.56**		0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:22	1
Beryllium	**0.0053**		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:22	1
Cadmium	**0.0025**	J ^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:22	1
Chromium	**0.12**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:22	1
Cobalt	**0.029**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:22	1
Copper	**0.12**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:22	1
Iron	**130**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:22	1
Lead	**0.12**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:22	1
Manganese	**1.2**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:22	1
Nickel	**0.099**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:22	1

Client Sample ID: AL32-9(0-1)-030816
Date Collected: 03/08/16 15:04
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-13
Matrix: Solid
Percent Solids: 90.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:22	1
Zinc	**0.49**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Arsenic	**4.5**		0.51	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Barium	**39**		0.51	0.093	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Beryllium	**0.34**		0.20	0.044	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Cadmium	**0.096**	**J**	0.10	0.029	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Calcium	**22000**	**B**	10	3.3	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Chromium	**9.8**	**B**	0.51	0.088	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Cobalt	**4.7**		0.25	0.057	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Copper	**12**		0.51	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Iron	**9400**	**B**	10	3.9	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Lead	**16**		0.25	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Magnesium	**13000**	**B**	5.1	2.1	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Manganese	**220**		0.51	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Nickel	**11**		0.51	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Potassium	**680**		25	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Sodium	**1400**		51	6.7	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Vanadium	**14**		0.25	0.074	mg/Kg	☼	03/10/16 15:40	03/11/16 16:33	1
Zinc	**36**		1.0	0.32	mg/Kg	☼	03/10/16 15:40	03/13/16 03:02	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 14:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	16	8.6	ug/Kg	☼	03/12/16 17:00	03/13/16 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.00**		0.200	0.200	SU			03/10/16 12:56	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Client Sample ID: AL32-12(0-1)-030816
Date Collected: 03/08/16 15:20
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-14
Matrix: Solid
Percent Solids: 88.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/09/16 22:34	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 22:34	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/09/16 22:34	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 22:34	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 22:34	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 22:34	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 22:34	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 22:34	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/09/16 22:34	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 22:34	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 22:34	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 22:34	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 22:34	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/09/16 22:34	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 22:34	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/09/16 22:34	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 22:34	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 22:34	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 22:34	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 22:34	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/09/16 22:34	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/09/16 22:34	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 22:34	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 22:34	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 22:34	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 22:34	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/09/16 22:34	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 22:34	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 22:34	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 22:34	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 22:34	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 22:34	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 22:34	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 22:34	1
Vinyl chloride	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 22:34	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/09/16 22:34*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/09/16 22:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/09/16 22:34*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 22:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1

Client Sample ID: AL32-12(0-1)-030816
Date Collected: 03/08/16 15:20
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-14
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Acenaphthylene	**14**	**J**	37	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Anthracene	**12**	**J**	37	6.2	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Benzo[a]anthracene	**110**	*****	37	5.0	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Benzo[a]pyrene	**160**	*****	37	7.1	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Benzo[b]fluoranthene	**270**	*****	37	8.0	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Benzo[g,h,i]perylene	**100**	*****	37	12	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Benzo[k]fluoranthene	**110**	*****	37	11	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Bis(2-ethylhexyl) phthalate	**160**	**J ***	190	67	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Chrysene	**140**	*****	37	10	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Dibenz(a,h)anthracene	<37	*	37	7.1	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Fluoranthene	**150**		37	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Hexachlorobenzene	<74		74	8.6	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1

Client Sample ID: AL32-12(0-1)-030816
Date Collected: 03/08/16 15:20
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-14
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**110**	*	37	9.6	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Phenanthrene	**62**		37	5.1	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1
Pyrene	**410**	*	37	7.3	ug/Kg	☼	03/10/16 15:26	03/14/16 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*35 - 137*	*03/10/16 15:26*	*03/14/16 15:43*	*1*
2-Fluorobiphenyl	*82*		*25 - 119*	*03/10/16 15:26*	*03/14/16 15:43*	*1*
2-Fluorophenol	*84*		*25 - 110*	*03/10/16 15:26*	*03/14/16 15:43*	*1*
Nitrobenzene-d5	*70*		*25 - 115*	*03/10/16 15:26*	*03/14/16 15:43*	*1*
Phenol-d5	*80*		*31 - 110*	*03/10/16 15:26*	*03/14/16 15:43*	*1*
Terphenyl-d14	*212*	*X *	*36 - 134*	*03/10/16 15:26*	*03/14/16 15:43*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:34	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:34	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:34	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:34	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:34	1
Manganese	**0.46**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:34	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:34	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:34	1
Zinc	**0.18**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.023**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:29	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:29	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:29	1
Chromium	**0.078**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:29	1
Cobalt	**0.020**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:29	1
Copper	**0.059**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:29	1
Iron	**88**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:29	1
Lead	**0.091**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:29	1
Manganese	**1.2**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:29	1
Nickel	**0.054**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:29	1

Client Sample ID: AL32-12(0-1)-030816
Date Collected: 03/08/16 15:20
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-14
Matrix: Solid
Percent Solids: 88.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:29	1
Zinc	**0.70**	**B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:29	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Arsenic	**2.8**		0.52	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Barium	**35**		0.52	0.095	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Beryllium	**0.24**		0.21	0.045	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Cadmium	**0.17**		0.10	0.030	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Calcium	**78000**	**B**	100	33	mg/Kg	☼	03/10/16 15:40	03/11/16 20:39	10
Chromium	**9.2**	**B**	0.52	0.089	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Cobalt	**3.8**		0.26	0.059	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Copper	**9.0**		0.52	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Iron	**7400**	**B**	10	4.0	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Lead	**30**		0.26	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Magnesium	**33000**	**B**	5.2	2.1	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Manganese	**300**		0.52	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Nickel	**8.5**		0.52	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Potassium	**580**		26	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Sodium	**1200**		52	6.8	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Thallium	<0.52		0.52	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Vanadium	**9.5**		0.26	0.076	mg/Kg	☼	03/10/16 15:40	03/11/16 16:38	1
Zinc	**100**		10	3.3	mg/Kg	☼	03/10/16 15:40	03/11/16 20:39	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	16	8.6	ug/Kg	☼	03/12/16 17:00	03/13/16 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.59**		0.200	0.200	SU			03/10/16 12:59	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108487
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

500-108487 COC
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH					Comments
1		AL32-7(0-4)-030816	3/8/16	1215	2	S	X	X	X	X	X					
2		AL32-8(0-4)-030816	3/8/16	1317	2	S	X	X	X	X	X					
3		AL32-4(0-1)-030816	3/8/16	1322	2	S	X	X	X	X	X					
4		VL34-1(0-1)-030816	3/8/16	1331	2	S	X	X	X	X	X					
5		VL34-1(0-1)-030816D	3/8/16	1331	2	S	X	X	X	X	X					
6		R35-1(0-1)-030816	3/8/16	1358	2	S	X	X	X	X	X					
7		VL34-2(0-1)-030816	3/8/16	1350	2	S	X	X	X	X	X					
8		R35-2(0-1)-030816	3/8/16	1405	2	S	X	X	X	X	X					
9		VL34-3(0-1)-030816	3/8/16	1412	2	S	X	X	X	X	X					
10		R33-1(0-1)-030816	3/8/16	1425	2	S	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	Company	Date	Time	Received By	Company	Date	Time
Alan M Fid	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-CHI	03/08/16	16:45

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-108487

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler: 3.2/1.6

(optional) Report To	(optional) Bill To
Contact: S. Balaesubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 207	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston	
Project Name	
IDOT 034	
Project Location/State	Lab Project #
Wilmington, IL	
Sampler	Lab PM
A. Tuchase	Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP metals	pH					Comments
11		AL32-10(0-1)-030816	3/8/16	1440	2	S		X	X	X	X	X					
12		AL32-11(0-1)-030816	3/8/16	1457	2	S		X	X	X	X	X					
13		AL32-9(0-1)-030816	3/8/16	1504	2	S		X	X	X	X	X					
14		AL32-12(0-1)-030816	3/8/16	1520	2	S		X	X	X	X	X					
15		VL31-1(0-1)-030816	3/8/16	1530	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-LHT	03/08/16	16:45
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-LHT

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:

TAL-4124-500 (1209)
3/21/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20340 IL 102 (ISGS Site No. 2946-33)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.250361768 (Decimal Degrees) Longitude: -88.099572896 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.250361768 Longitude: -88.099572896

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 R33-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-33. SEE FIGURE 3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108487-1.
ALSO SEE FIGURE 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

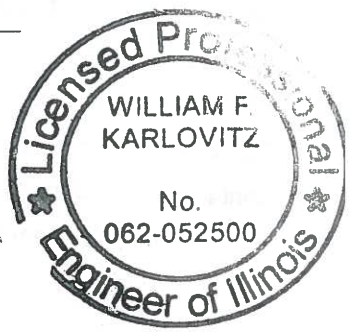
City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:



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

Summary Table of ISGS Site No. 2946-33
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R33-1(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	
Location ID	R33-1	
Depth	0 - 1	
ISGS Site No.	2946-33	
Parameter		
Laboratory pH (s.u.)	7.81	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	18 J	900 / 1100 / 1800
Benzo(a)pyrene	24 J	90 / 1300 / 2100
Benzo(b)fluoranthene	51 J	900 / 1500 / 2100
Benzo(k)fluoranthene	13 J	9000
bis(2-Ethylhexyl)phthalate	190 J	46000
Chrysene	26 J	88000
Fluoranthene	32 J	3100000
Phenanthrene	15 J	---
Pyrene	61 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	6.6	11.3 / 13
Barium, Total	66	1500
Beryllium, Total	0.5	22
Cadmium, Total	0.19	5.2
Calcium, Total	26000 B	---
Chromium, Total	15 B	21
Cobalt, Total	7.5	20
Copper, Total	15	2900
Iron, Total	13000 B	15000 / 15900
Lead, Total	44	107
Magnesium, Total	17000 B	325000
Manganese, Total	430	630 / 636
Mercury, Total	0.029	0.89
Nickel, Total	16	100
Potassium, Total	1100	---
Selenium, Total	0.48 J	1.3
Sodium, Total	320	---
Vanadium, Total	16	550
Zinc, Total	63	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.48 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.46	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.37 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.02 J	0.05
Barium, SPLP	0.27 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.058	0.1
Cobalt, SPLP	0.011 J	1
Copper, SPLP	0.046	0.65
Iron, SPLP	57 J+	5
Lead, SPLP	0.05	0.0075
Manganese, SPLP	0.51	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.04	0.1
Selenium, SPLP	ND	0.05
Zinc, SPLP	0.8 B	5

Summary Table of ISGS Site No. 2946-33
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108487-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/21/2016 2:32:26 PM

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

Client Sample ID: R33-1(0-1)-030816
Date Collected: 03/08/16 14:25
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-10
Matrix: Solid
Percent Solids: 85.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 18:40	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 18:40	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/09/16 18:40	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:40	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 18:40	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 18:40	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 18:40	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:40	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 18:40	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 18:40	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:40	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:40	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 18:40	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/09/16 18:40	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:40	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/09/16 18:40	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 18:40	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 18:40	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 18:40	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 18:40	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 18:40	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/09/16 18:40	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 18:40	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:40	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:40	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:40	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/09/16 18:40	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:40	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/09/16 18:40	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 18:40	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 18:40	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:40	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 18:40	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 18:40	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:40	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/09/16 18:40*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/09/16 18:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/09/16 18:40*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/09/16 18:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1

Client Sample ID: R33-1(0-1)-030816
Date Collected: 03/08/16 14:25
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-10
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Anthracene	<38		38	6.4	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Benzo[a]anthracene	**18**	**J ***	38	5.1	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Benzo[a]pyrene	**24**	**J ***	38	7.4	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Benzo[b]fluoranthene	**51**	**	38	8.3	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Benzo[g,h,i]perylene	<38	*	38	12	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Benzo[k]fluoranthene	**13**	**J ***	38	11	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Bis(2-ethylhexyl) phthalate	**190**	**	190	70	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Butyl benzyl phthalate	<190	*	190	73	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Carbazole	<190		190	96	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Chrysene	**26**	**J ***	38	10	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Fluoranthene	**32**	**J**	38	7.1	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1

Client Sample ID: R33-1(0-1)-030816
Date Collected: 03/08/16 14:25
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-10
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38	*	38	9.9	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Isophorone	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Phenanthrene	**15**	**J**	38	5.3	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Phenol	<190		190	85	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1
Pyrene	**61**	*****	38	7.6	ug/Kg	☼	03/10/16 15:26	03/15/16 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*35 - 137*	*03/10/16 15:26*	*03/15/16 16:37*	*1*
2-Fluorobiphenyl	*78*		*25 - 119*	*03/10/16 15:26*	*03/15/16 16:37*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/10/16 15:26*	*03/15/16 16:37*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*03/10/16 15:26*	*03/15/16 16:37*	*1*
Phenol-d5	*82*		*31 - 110*	*03/10/16 15:26*	*03/15/16 16:37*	*1*
Terphenyl-d14	*187*	*X **	*36 - 134*	*03/10/16 15:26*	*03/15/16 16:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:13	1
Barium	**0.48**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:13	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:13	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:13	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:13	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:13	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:13	1
Manganese	**0.46**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:13	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:13	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:13	1
Zinc	**0.37**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:46	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:46	1
Chromium	**0.058**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Cobalt	**0.011**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Copper	**0.046**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Iron	**57**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:46	1
Lead	**0.050**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:46	1
Manganese	**0.51**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Nickel	**0.040**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:46	1

Client Sample ID: R33-1(0-1)-030816
Date Collected: 03/08/16 14:25
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-10
Matrix: Solid
Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Zinc	**0.80**	**B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:46	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Arsenic	**6.6**		0.57	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Barium	**66**		0.57	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Beryllium	**0.50**		0.23	0.049	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Cadmium	**0.19**		0.11	0.033	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Calcium	**26000**	**B**	11	3.6	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Chromium	**15**	**B**	0.57	0.097	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Cobalt	**7.5**		0.28	0.064	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Copper	**15**		0.57	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Iron	**13000**	**B**	11	4.4	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Lead	**44**		0.28	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Magnesium	**17000**	**B**	5.7	2.3	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Manganese	**430**		0.57	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Nickel	**16**		0.57	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Potassium	**1100**		28	4.6	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Selenium	**0.48**	**J**	0.57	0.28	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Sodium	**320**		57	7.5	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Vanadium	**16**		0.28	0.083	mg/Kg	☼	03/10/16 15:40	03/11/16 16:18	1
Zinc	**63**		1.1	0.36	mg/Kg	☼	03/10/16 15:40	03/13/16 01:58	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**29**		18	9.5	ug/Kg	☼	03/12/16 17:00	03/13/16 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.81**		0.200	0.200	SU			03/10/16 12:45	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

Chain of Custody Record

Lab Job #: 500-108487
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.2, 1.6

500-108487 COC
9. Other

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
1		AL32-7(0-4)-030816	3/8/16	1215	2	S	X	X	X	X	X					
2		AL32-8(0-4)-030816	3/8/16	1317	2	S	X	X	X	X	X					
3		AL32-4(0-1)-030816	3/8/16	1322	2	S	X	X	X	X	X					
4		VL34-1(0-1)-030816	3/8/16	1331	2	S	X	X	X	X	X					
5		VL34-1(0-1)-030816D	3/8/16	1331	2	S	X	X	X	X	X					
6		R35-1(0-1)-030816	3/8/16	1358	2	S	X	X	X	X	X					
7		VL34-2(0-1)-030816	3/8/16	1350	2	S	X	X	X	X	X					
8		R35-2(0-1)-030816	3/8/16	1405	2	S	X	X	X	X	X					
9		VL34-3(0-1)-030816	3/8/16	1412	2	S	X	X	X	X	X					
10		R33-1(0-1)-030816	3/8/16	1425	2	S	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	Company	Date	Time	Received By	Company	Date	Time
Alan M Fin[illegible]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-Chi	03/08/16	16:45

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-108487

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler: 3.2/1.6

(optional) Report To	(optional) Bill To
Contact: S. Balaesubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 207	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston	
Project Name	
IDOT 034	
Project Location/State	Lab Project #
Wilmington, IL	
Sampler	Lab PM
A. Tuchase	Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP metals	pH					Comments
11		AL32-10(0-1)-030816	3/8/16	1440	2	S		X	X	X	X	X					
12		AL32-11(0-1)-030816	3/8/16	1457	2	S		X	X	X	X	X					
13		AL32-9(0-1)-030816	3/8/16	1504	2	S		X	X	X	X	X					
14		AL32-12(0-1)-030816	3/8/16	1520	2	S		X	X	X	X	X					
15		VL31-1(0-1)-030816	3/8/16	1530	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-LHT	03/08/16	16:45
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-LHT

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:

TAL-4124-500 (1209)
3/21/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20000 block of IL 102 (ISGS Site No. 2946-34)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.250712567 (Decimal Degrees) Longitude: -88.100584050 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.250712567 Longitude: -88.100584050

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 VL34-1 THROUGH VL34-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-34. SEE FIGURES 3-6 AND 3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108487-1.
ALSO SEE FIGURES 4-6 AND 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

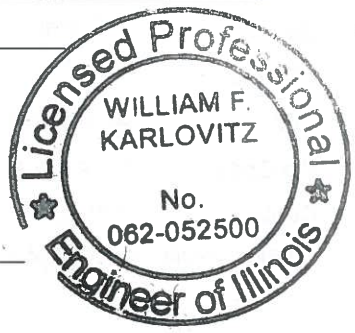
Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

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



Summary Table of ISGS Site No. 2946-34
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL34-1(0-1)-030816	VL34-1(0-1)-030816D	VL34-2(0-1)-030816	VL34-3(0-1)-030816	Soil Reference Concentrations[A]
Sample Date	3/8/2016	3/8/2016	3/8/2016	3/8/2016	
Location ID	VL34-1	VL34-1	VL34-2	VL34-3	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-34	2946-34	2946-34	2946-34	
Parameter					
Laboratory pH (s.u.)	8.51	8.34	8.65	8.51	<6.25,>9.0
VOCs (ug/kg)	None Detected				
SVOCs (ug/kg)					
2-Methylnaphthalene	9.7 J	ND	8.9 J	ND	---
Acenaphthene	9.6 J	15 J	12 J	ND	570000
Acenaphthylene	56	37	130	14 J	---
Anthracene	60	66	63	7.5 J	1.20E+07
Benzo(a)anthracene	380 J	320 J	350 *	100	900 / 1100 / 1800
Benzo(a)pyrene	440 J	430 J	380 *	140 *	90 / 1300 / 2100
Benzo(b)fluoranthene	760 J	730 J	580 *	270 *	900 / 1500 / 2100
Benzo(g,h,i)perylene	210 J	200 J	240 *	60 *	---
Benzo(k)fluoranthene	ND	260 J	250 *	95 *	9000
bis(2-Ethylhexyl)phthalate	ND	ND	150 J	140 J	46000
Butyl benzyl phthalate	ND	94 J	ND	ND	930000
Chrysene	430 J	380 J	380 *	130	88000
Dibenzo(a,h)anthracene	ND	ND	ND	15 J	90 / 200 / 420
Fluoranthene	690	480	340	150	3100000
Fluorene	13 J	12 J	30 J	ND	560000
Indeno(1,2,3-cd)pyrene	200 J	190 J	290 *	79 *	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	6.7 J	ND	1800
Phenanthrene	220	230	410	35 J	---
Pyrene	1200 J	840 J	1500 *	310	2300000
Total Metals (mg/kg)					
Antimony, Total	ND	ND	0.43 J	0.39 J	5
Arsenic, Total	3.1	2.6	4.2	3.7	11.3 / 13
Barium, Total	49	33	13	31	1500
Beryllium, Total	0.35	0.24	0.17 J	0.25	22
Cadmium, Total	0.24	0.21	0.16	0.19	5.2
Calcium, Total	25000 J	79000 J	170000 B	130000 B	---
Chromium, Total	10 J	18 J	8.8 B	7.6 B	21
Cobalt, Total	4.4	3.4	2.1	4.1	20
Copper, Total	11	9.2	6.3	8.9	2900
Iron, Total	7800 B	6700 B	5200 B	8600 B	15000 / 15900
Lead, Total	70	100	63	33	107
Magnesium, Total	16000 J	33000 J	110000 B	75000 B	325000
Manganese, Total	360	300	210	490	630 / 636
Mercury, Total	0.17 J	0.094 J	0.014 J	0.015 J	0.89
Nickel, Total	9	7.5	5.3	9	100
Potassium, Total	590	510	390	630	---
Selenium, Total	0.36 J	ND	ND	0.47 J	1.3
Sodium, Total	1000	770	420	520	---
Vanadium, Total	10	9	5.8	9.2	550
Zinc, Total	62	51	37	52	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.28 J	0.28 J	0.19 J	0.36 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.86	0.93	0.66	0.69	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
Zinc, TCLP	0.2 J	ND	0.098 ND	ND	5

Summary Table of ISGS Site No. 2946-34
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL34-1(0-1)-030816	VL34-1(0-1)-030816D	VL34-2(0-1)-030816	VL34-3(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	3/8/2016	3/8/2016	
Location ID	VL34-1	VL34-1	VL34-2	VL34-3	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-34	2946-34	2946-34	2946-34	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	0.017 J	0.016 J	0.016 J	0.03 J	0.05
Barium, SPLP	0.27 J	0.25 J	0.15 J	0.49 J	2
Beryllium, SPLP	ND	ND	ND	0.0041	0.004
Cadmium, SPLP	ND	ND	ND	0.0027 J	0.005
Chromium, SPLP	0.07	0.06	0.051	0.1	0.1
Cobalt, SPLP	0.015 J	0.015 J	0.011 J	0.025	1
Copper, SPLP	0.052	0.047	0.04	0.08	0.65
Iron, SPLP	57 J+	52 J+	39 J+	110 J+	5
Lead, SPLP	0.23	0.19	0.22	0.15	0.0075
Manganese, SPLP	0.92	0.92	0.66	1.2	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.044	0.04	0.035	0.075	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.87 B	0.42 J	0.26 J	0.49 J	5

Notes:

--- - not applicable or value not available.

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

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108487-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/21/2016 2:32:26 PM

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

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Client Sample ID: VL34-1(0-1)-030816
Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-4
Matrix: Solid
Percent Solids: 88.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.4	ug/Kg	☼		03/09/16 16:05	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:05	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/09/16 16:05	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:05	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 16:05	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 16:05	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:05	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:05	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/09/16 16:05	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:05	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:05	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:05	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:05	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/09/16 16:05	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:05	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 16:05	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:05	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 16:05	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 16:05	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 16:05	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 16:05	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/09/16 16:05	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:05	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:05	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:05	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:05	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/09/16 16:05	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:05	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:05	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 16:05	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 16:05	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:05	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:05	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 16:05	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:05	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*03/09/16 16:05*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/09/16 16:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/09/16 16:05*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 16:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1

Client Sample ID: VL34-1(0-1)-030816
Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-4
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	84	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2-Methylnaphthalene	**9.7**	**J**	36	6.7	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
2-Nitrophenol	<360		360	87	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Acenaphthene	**9.6**	**J**	36	6.6	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Acenaphthylene	**56**		36	4.8	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Anthracene	**60**		36	6.1	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Benzo[a]anthracene	**380**	*****	36	4.9	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Benzo[a]pyrene	**440**	*****	36	7.1	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Benzo[b]fluoranthene	**760**	*****	36	7.9	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Benzo[g,h,i]perylene	**210**	*****	36	12	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Benzo[k]fluoranthene	<36	*	36	11	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Bis(2-ethylhexyl) phthalate	<180	*	180	67	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Butyl benzyl phthalate	<180	*	180	70	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Carbazole	<180		180	92	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Chrysene	**430**	*****	36	10	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Dibenz(a,h)anthracene	<36	*	36	7.1	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Fluoranthene	**690**		36	6.8	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Fluorene	**13**	**J**	36	5.2	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1

Client Sample ID: VL34-1(0-1)-030816
Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-4
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**200**	*	36	9.5	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Isophorone	<180		180	41	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Nitrobenzene	<36		36	9.2	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Phenanthrene	**220**		36	5.1	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Phenol	<180		180	81	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1
Pyrene	**1200**	*	36	7.3	ug/Kg	☼	03/18/16 17:21	03/20/16 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*35 - 137*	*03/18/16 17:21*	*03/20/16 20:21*	*1*
2-Fluorobiphenyl	*85*		*25 - 119*	*03/18/16 17:21*	*03/20/16 20:21*	*1*
2-Fluorophenol	*77*		*25 - 110*	*03/18/16 17:21*	*03/20/16 20:21*	*1*
Nitrobenzene-d5	*77*		*25 - 115*	*03/18/16 17:21*	*03/20/16 20:21*	*1*
Phenol-d5	*82*		*31 - 110*	*03/18/16 17:21*	*03/20/16 20:21*	*1*
Terphenyl-d14	*144*	*X *	*36 - 134*	*03/18/16 17:21*	*03/20/16 20:21*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:33	1
Manganese	**0.86**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:33	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Zinc	**0.20**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:06	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:06	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:06	1
Chromium	**0.070**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:06	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:06	1
Copper	**0.052**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:06	1
Iron	**57**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:06	1
Lead	**0.23**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:06	1
Manganese	**0.92**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:06	1
Nickel	**0.044**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:06	1

Client Sample ID: VL34-1(0-1)-030816
Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-4
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:06	1
Zinc	**0.87**	**B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Arsenic	**3.1**		0.52	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Barium	**49**		0.52	0.096	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Beryllium	**0.35**		0.21	0.045	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Cadmium	**0.24**		0.10	0.030	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Calcium	**25000**	**B**	10	3.4	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Chromium	**10**	**B**	0.52	0.090	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Cobalt	**4.4**		0.26	0.059	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Copper	**11**		0.52	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Iron	**7800**	**B**	10	4.0	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Lead	**70**		0.26	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Magnesium	**16000**	**B**	5.2	2.1	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Manganese	**360**		0.52	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Nickel	**9.0**		0.52	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Potassium	**590**		26	4.3	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Selenium	**0.36**	**J**	0.52	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Sodium	**1000**		52	6.9	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Vanadium	**10**		0.26	0.076	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1
Zinc	**62**		1.0	0.33	mg/Kg	☼	03/10/16 15:40	03/11/16 15:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**170**		19	9.7	ug/Kg	☼	03/12/16 17:00	03/13/16 19:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.51**		0.200	0.200	SU			03/10/16 12:29	1

Client Sample ID: VL34-1(0-1)-030816D

Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-5

Matrix: Solid
Percent Solids: 88.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/09/16 16:31	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:31	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/09/16 16:31	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:31	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 16:31	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 16:31	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:31	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:31	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/09/16 16:31	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 16:31	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:31	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:31	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:31	1
Dibromochloromethane	<5.7		5.7	0.65	ug/Kg	☼		03/09/16 16:31	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:31	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/09/16 16:31	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 16:31	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 16:31	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 16:31	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:31	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/09/16 16:31	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/09/16 16:31	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 16:31	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:31	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:31	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:31	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/09/16 16:31	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:31	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 16:31	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:31	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 16:31	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:31	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 16:31	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 16:31	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:31	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 16:31*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/09/16 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/09/16 16:31*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 16:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1

Client Sample ID: VL34-1(0-1)-030816D
Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-5
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Acenaphthene	**15**	**J**	35	6.4	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Acenaphthylene	**37**		35	4.7	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Anthracene	**66**		35	5.9	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Benzo[a]anthracene	**320**	*****	35	4.8	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Benzo[a]pyrene	**430**	*****	35	6.9	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Benzo[b]fluoranthene	**730**	*****	35	7.7	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Benzo[g,h,i]perylene	**200**	*****	35	11	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Benzo[k]fluoranthene	**260**	*****	35	10	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Butyl benzyl phthalate	**94**	**J ***	180	68	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Carbazole	<180		180	89	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Chrysene	**380**	*****	35	9.7	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Dibenz(a,h)anthracene	<35	*	35	6.9	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Fluoranthene	**480**		35	6.6	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Fluorene	**12**	**J**	35	5.0	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1

Client Sample ID: VL34-1(0-1)-030816D
Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-5
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**190**	*	35	9.2	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Isophorone	<180		180	40	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Phenanthrene	**230**		35	5.0	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Phenol	<180		180	79	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1
Pyrene	**840**	*	35	7.1	ug/Kg	☼	03/18/16 17:21	03/20/16 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*35 - 137*	*03/18/16 17:21*	*03/20/16 20:50*	*1*
2-Fluorobiphenyl	*73*		*25 - 119*	*03/18/16 17:21*	*03/20/16 20:50*	*1*
2-Fluorophenol	*68*		*25 - 110*	*03/18/16 17:21*	*03/20/16 20:50*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*03/18/16 17:21*	*03/20/16 20:50*	*1*
Phenol-d5	*71*		*31 - 110*	*03/18/16 17:21*	*03/20/16 20:50*	*1*
Terphenyl-d14	*138*	*X *	*36 - 134*	*03/18/16 17:21*	*03/20/16 20:50*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:46	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:46	1
Manganese	**0.93**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:46	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:46	1
Zinc	**0.13**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:13	1
Barium	**0.25**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:13	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:13	1
Chromium	**0.060**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:13	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:13	1
Copper	**0.047**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:13	1
Iron	**52**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:13	1
Lead	**0.19**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:13	1
Manganese	**0.92**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:13	1
Nickel	**0.040**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:13	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:13	1

Client Sample ID: VL34-1(0-1)-030816D
Date Collected: 03/08/16 13:31
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-5
Matrix: Solid
Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:13	1
Zinc	**0.42**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:13	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Arsenic	**2.6**		0.55	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Barium	**33**		0.55	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Beryllium	**0.24**		0.22	0.048	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Cadmium	**0.21**		0.11	0.032	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Calcium	**79000**	**B**	110	35	mg/Kg	☼	03/10/16 15:40	03/11/16 17:16	10
Chromium	**18**	**B**	0.55	0.094	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Cobalt	**3.4**		0.27	0.062	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Copper	**9.2**		0.55	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Iron	**6700**	**B**	11	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Lead	**100**		0.27	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Magnesium	**33000**	**B**	5.5	2.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Manganese	**300**		0.55	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Nickel	**7.5**		0.55	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Potassium	**510**		27	4.5	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Sodium	**770**		55	7.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Vanadium	**9.0**		0.27	0.080	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1
Zinc	**51**		1.1	0.35	mg/Kg	☼	03/10/16 15:40	03/11/16 15:41	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**94**		18	9.2	ug/Kg	☼	03/12/16 17:00	03/13/16 19:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.34**		0.200	0.200	SU			03/10/16 12:32	1

Client Sample ID: VL34-2(0-1)-030816
Date Collected: 03/08/16 13:50
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-7
Matrix: Solid
Percent Solids: 90.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 17:23	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 17:23	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/09/16 17:23	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 17:23	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 17:23	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 17:23	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 17:23	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 17:23	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/09/16 17:23	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 17:23	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 17:23	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 17:23	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 17:23	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/09/16 17:23	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 17:23	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/09/16 17:23	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 17:23	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 17:23	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 17:23	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 17:23	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 17:23	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 17:23	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 17:23	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 17:23	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 17:23	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 17:23	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/09/16 17:23	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 17:23	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/09/16 17:23	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 17:23	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 17:23	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 17:23	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 17:23	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 17:23	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 17:23	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/09/16 17:23*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/09/16 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/09/16 17:23*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 17:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1

Client Sample ID: VL34-2(0-1)-030816
Date Collected: 03/08/16 13:50
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-7
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2-Methylnaphthalene	**8.9**	**J**	35	6.5	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Acenaphthene	**12**	**J**	35	6.3	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Acenaphthylene	**130**		35	4.6	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Anthracene	**63**		35	5.9	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Benzo[a]anthracene	**350**	*****	35	4.7	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Benzo[a]pyrene	**380**	*****	35	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Benzo[b]fluoranthene	**580**	*****	35	7.6	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Benzo[g,h,i]perylene	**240**	*****	35	11	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Benzo[k]fluoranthene	**250**	*****	35	10	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Bis(2-ethylhexyl) phthalate	**150**	**J ***	180	64	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Carbazole	<180		180	88	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Chrysene	**380**	*****	35	9.6	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Fluoranthene	**340**		35	6.5	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Fluorene	**30**	**J**	35	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1

Client Sample ID: VL34-2(0-1)-030816
Date Collected: 03/08/16 13:50
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-7
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**290**	*	35	9.1	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Isophorone	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Naphthalene	**6.7**	J	35	5.4	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Phenanthrene	**410**		35	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Phenol	<180		180	78	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1
Pyrene	**1500**	*	35	7.0	ug/Kg	☼	03/10/16 15:26	03/14/16 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*35 - 137*	*03/10/16 15:26*	*03/14/16 20:04*	*1*
2-Fluorobiphenyl	*68*		*25 - 119*	*03/10/16 15:26*	*03/14/16 20:04*	*1*
2-Fluorophenol	*65*		*25 - 110*	*03/10/16 15:26*	*03/14/16 20:04*	*1*
Nitrobenzene-d5	*53*		*25 - 115*	*03/10/16 15:26*	*03/14/16 20:04*	*1*
Phenol-d5	*66*		*31 - 110*	*03/10/16 15:26*	*03/14/16 20:04*	*1*
Terphenyl-d14	*175*	*X *	*36 - 134*	*03/10/16 15:26*	*03/14/16 20:04*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:57	1
Barium	**0.19**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:57	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:57	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:57	1
Manganese	**0.66**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:57	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:57	1
Zinc	**0.098**	J B	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:26	1
Barium	**0.15**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:26	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:26	1
Chromium	**0.051**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:26	1
Cobalt	**0.011**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:26	1
Copper	**0.040**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:26	1
Iron	**39**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:26	1
Lead	**0.22**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:26	1
Manganese	**0.66**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:26	1
Nickel	**0.035**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:26	1

Client Sample ID: VL34-2(0-1)-030816
Date Collected: 03/08/16 13:50
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-7
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:26	1
Zinc	**0.26**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:26	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.43**	**J**	1.0	0.22	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Arsenic	**4.2**		0.52	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Barium	**13**		0.52	0.095	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Beryllium	**0.17**	**J**	0.21	0.045	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Cadmium	**0.16**		0.10	0.030	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Calcium	**170000**	**B**	100	33	mg/Kg	☼	03/10/16 15:40	03/11/16 17:24	10
Chromium	**8.8**	**B**	0.52	0.089	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Cobalt	**2.1**		0.26	0.059	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Copper	**6.3**		0.52	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Iron	**5200**	**B**	10	4.0	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Lead	**63**		0.26	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Magnesium	**110000**	**B**	52	21	mg/Kg	☼	03/10/16 15:40	03/11/16 17:24	10
Manganese	**210**		0.52	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Nickel	**5.3**		0.52	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Potassium	**390**		26	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Sodium	**420**		52	6.9	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Vanadium	**5.8**		0.26	0.076	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1
Zinc	**37**		1.0	0.33	mg/Kg	☼	03/10/16 15:40	03/11/16 15:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**14**	**J**	16	8.5	ug/Kg	☼	03/12/16 17:00	03/13/16 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.65**		0.200	0.200	SU			03/10/16 12:37	1

Client Sample ID: VL34-3(0-1)-030816
Date Collected: 03/08/16 14:12
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-9
Matrix: Solid
Percent Solids: 89.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 18:15	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 18:15	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/09/16 18:15	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 18:15	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 18:15	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 18:15	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 18:15	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 18:15	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/09/16 18:15	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 18:15	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 18:15	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 18:15	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 18:15	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/09/16 18:15	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 18:15	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 18:15	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 18:15	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 18:15	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 18:15	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 18:15	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 18:15	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 18:15	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 18:15	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 18:15	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 18:15	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 18:15	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/09/16 18:15	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 18:15	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 18:15	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 18:15	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 18:15	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 18:15	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 18:15	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 18:15	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 18:15	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 18:15*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/09/16 18:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*03/09/16 18:15*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 18:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1

Client Sample ID: VL34-3(0-1)-030816
Date Collected: 03/08/16 14:12
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-9
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Acenaphthylene	**14**	**J**	36	4.7	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Anthracene	**7.5**	**J**	36	6.0	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Benzo[a]anthracene	**100**		36	4.8	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Benzo[a]pyrene	**140**	*****	36	7.0	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Benzo[b]fluoranthene	**270**	*****	36	7.8	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Benzo[g,h,i]perylene	**60**	*****	36	12	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Benzo[k]fluoranthene	**95**	*****	36	11	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Bis(2-ethylhexyl) phthalate	**140**	**J**	180	66	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Carbazole	<180		180	90	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Chrysene	**130**		36	9.8	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Dibenz(a,h)anthracene	**15**	**J ***	36	7.0	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Fluoranthene	**150**		36	6.7	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Client Sample ID: VL34-3(0-1)-030816
Date Collected: 03/08/16 14:12
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-9
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**79**	*	36	9.3	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Phenanthrene	**35**	J	36	5.0	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Phenol	<180		180	80	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1
Pyrene	**310**		36	7.1	ug/Kg	☼	03/10/16 15:26	03/15/16 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*35 - 137*	*03/10/16 15:26*	*03/15/16 15:38*	*1*
2-Fluorobiphenyl	*72*		*25 - 119*	*03/10/16 15:26*	*03/15/16 15:38*	*1*
2-Fluorophenol	*77*		*25 - 110*	*03/10/16 15:26*	*03/15/16 15:38*	*1*
Nitrobenzene-d5	*61*		*25 - 115*	*03/10/16 15:26*	*03/15/16 15:38*	*1*
Phenol-d5	*80*		*31 - 110*	*03/10/16 15:26*	*03/15/16 15:38*	*1*
Terphenyl-d14	*178*	*X*	*36 - 134*	*03/10/16 15:26*	*03/15/16 15:38*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:07	1
Barium	**0.36**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:07	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:07	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:07	1
Manganese	**0.69**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:07	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:07	1
Zinc	**0.038**	J B	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.030**	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:40	1
Barium	**0.49**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:40	1
Beryllium	**0.0041**		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:40	1
Cadmium	**0.0027**	J ^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:40	1
Chromium	**0.10**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:40	1
Cobalt	**0.025**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:40	1
Copper	**0.080**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:40	1
Iron	**110**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:40	1
Lead	**0.15**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:40	1
Manganese	**1.2**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:40	1
Nickel	**0.075**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:40	1

Client Sample ID: VL34-3(0-1)-030816
Date Collected: 03/08/16 14:12
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-9
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:40	1
Zinc	**0.49**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:40	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.39**	**J**	1.0	0.21	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Arsenic	**3.7**		0.51	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Barium	**31**		0.51	0.094	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Beryllium	**0.25**		0.21	0.045	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Cadmium	**0.19**		0.10	0.030	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Calcium	**130000**	**B**	100	33	mg/Kg	☼	03/10/16 15:40	03/11/16 20:27	10
Chromium	**7.6**	**B**	0.51	0.089	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Cobalt	**4.1**		0.26	0.058	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Copper	**8.9**		0.51	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Iron	**8600**	**B**	10	4.0	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Lead	**33**		0.26	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Magnesium	**75000**	**B**	51	21	mg/Kg	☼	03/10/16 15:40	03/11/16 20:27	10
Manganese	**490**		0.51	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Nickel	**9.0**		0.51	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Potassium	**630**		26	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Selenium	**0.47**	**J**	0.51	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Sodium	**520**		51	6.8	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Vanadium	**9.2**		0.26	0.075	mg/Kg	☼	03/10/16 15:40	03/11/16 16:13	1
Zinc	**52**		10	3.3	mg/Kg	☼	03/10/16 15:40	03/11/16 20:27	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 14:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	16	8.6	ug/Kg	☼	03/12/16 17:00	03/13/16 19:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.51**		0.200	0.200	SU			03/10/16 12:42	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasukumar
Company: Weston Solutions
Address: 360 plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108487
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.2, 1.6

500-108487 COC
9. Other

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
1		AL32-7(0-4)-030816	3/8/16	1215	2	S	X	X	X	X	X					
2		AL32-8(0-4)-030816	3/8/16	1317	2	S	X	X	X	X	X					
3		AL32-4(0-1)-030816	3/8/16	1322	2	S	X	X	X	X	X					
4		VL34-1(0-1)-030816	3/8/16	1331	2	S	X	X	X	X	X					
5		VL34-1(0-1)-030816D	3/8/16	1331	2	S	X	X	X	X	X					
6		R35-1(0-1)-030816	3/8/16	1358	2	S	X	X	X	X	X					
7		VL34-2(0-1)-030816	3/8/16	1350	2	S	X	X	X	X	X					
8		R35-2(0-1)-030816	3/8/16	1405	2	S	X	X	X	X	X					
9		VL34-3(0-1)-030816	3/8/16	1412	2	S	X	X	X	X	X					
10		R33-1(0-1)-030816	3/8/16	1425	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-Chi	03/08/16	16:45

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-108487

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler: 3.2/1.6

(optional) Report To	(optional) Bill To
Contact: S. Balaesubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 207	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston	
Project Name	
IDOT 034	
Project Location/State	Lab Project #
Wilmington, IL	
Sampler	Lab PM
A. Tuchase	Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP metals	pH					Comments
11		AL32-10(0-1)-030816	3/8/16	1440	2	S		X	X	X	X	X					
12		AL32-11(0-1)-030816	3/8/16	1457	2	S		X	X	X	X	X					
13		AL32-9(0-1)-030816	3/8/16	1504	2	S		X	X	X	X	X					
14		AL32-12(0-1)-030816	3/8/16	1520	2	S		X	X	X	X	X					
15		VL31-1(0-1)-030816	3/8/16	1530	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-LHT	03/08/16	16:45
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-LHT

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:

TAL-4124-500 (1209)
3/21/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20448 IL 102 (ISGS Site No. 2946-35)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.250913504 (Decimal Degrees) Longitude: -88.100846049 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.250913504 Longitude: -88.100846049

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 R35-1 AND R35-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-35. SEE FIGURES 3-6 AND 3-7 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108487-1.
ALSO SEE FIGURES 4-6 AND 4-7 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

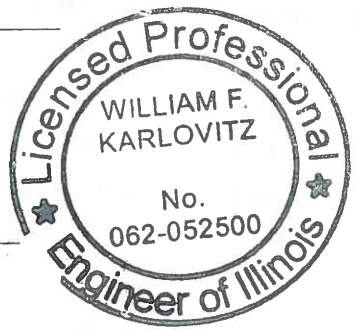
City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:



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

Summary Table of ISGS Site No. 2946-35
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R35-1(0-1)-030816	R35-2(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	R35-1	R35-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-33	2946-35	
Parameter			
Laboratory pH (s.u.)	8.47	8.59	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Acenaphthylene	ND	9.3 J	---
Anthracene	ND	6.3 J	1.20E+07
Benzo(a)anthracene	33 J	86 J	900 / 1100 / 1800
Benzo(a)pyrene	45 J	140 J	90 / 1300 / 2100
Benzo(b)fluoranthene	81 J	200 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	25 J	110 J	---
Benzo(k)fluoranthene	34 J	92 J	9000
bis(2-Ethylhexyl)phthalate	110 J	190 J	46000
Chrysene	44	94 J	88000
Fluoranthene	75	65	3100000
Indeno(1,2,3-cd)pyrene	ND	110 J	900 / 900 / 1600
Phenanthrene	31 J	29 J	---
Pyrene	110	280 J	2300000
Total Metals (mg/kg)			
Antimony, Total	0.22 J	0.3 J	5
Arsenic, Total	4.2	4.8	11.3 / 13
Barium, Total	30	38	1500
Beryllium, Total	0.28	0.36	22
Cadmium, Total	0.1	0.13	5.2
Calcium, Total	59000 B	32000 B	---
Chromium, Total	10 B	9.4 B	21
Cobalt, Total	4.9	5.2	20
Copper, Total	8.7	9.5	2900
Iron, Total	8100 B	9800 B	15000 / 15900
Lead, Total	42	27	107
Magnesium, Total	22000 B	20000 B	325000
Manganese, Total	210	310	630 / 636
Mercury, Total	0.019	0.018	0.89
Nickel, Total	10	12	100
Potassium, Total	570	840	---
Sodium, Total	660	440	---
Vanadium, Total	9.9	12	550
Zinc, Total	40	42	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.37 J	0.44 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.2	0.42	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Zinc, TCLP	ND	0.18 J	5

Summary Table of ISGS Site No. 2946-35
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R35-1(0-1)-030816	R35-2(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	R35-1	R35-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-33	2946-35	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.026 J	0.041 J	0.05
Barium, SPLP	0.28 J	0.46 J	2
Beryllium, SPLP	ND	0.0044	0.004
Cadmium, SPLP	ND	0.0023 J	0.005
Chromium, SPLP	0.068	0.1	0.1
Cobalt, SPLP	0.015 J	0.024 J	1
Copper, SPLP	0.056	0.082	0.65
Iron, SPLP	68 J+	110 J+	5
Lead, SPLP	0.081	0.12	0.0075
Manganese, SPLP	0.68	1.1	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.054	0.081	0.1
Zinc, SPLP	0.39 J	0.76 B	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108487-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/21/2016 2:32:26 PM

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

Client Sample ID: R35-1(0-1)-030816
Date Collected: 03/08/16 13:58
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-6
Matrix: Solid
Percent Solids: 90.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 16:57	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:57	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/09/16 16:57	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:57	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:57	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:57	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:57	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:57	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/09/16 16:57	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:57	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:57	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:57	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:57	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/09/16 16:57	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:57	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		03/09/16 16:57	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:57	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 16:57	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 16:57	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 16:57	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 16:57	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 16:57	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:57	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:57	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:57	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:57	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/09/16 16:57	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:57	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/09/16 16:57	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 16:57	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 16:57	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:57	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:57	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 16:57	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:57	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 16:57*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/09/16 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/09/16 16:57*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 16:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1

Client Sample ID: R35-1(0-1)-030816
Date Collected: 03/08/16 13:58
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-6
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Benzo[a]anthracene	**33**	**J**	35	4.7	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Benzo[a]pyrene	**45**	*****	35	6.8	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Benzo[b]fluoranthene	**81**	*****	35	7.6	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Benzo[g,h,i]perylene	**25**	**J ***	35	11	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Benzo[k]fluoranthene	**34**	**J ***	35	10	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Bis(2-ethylhexyl) phthalate	**110**	**J**	180	64	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Carbazole	<180		180	88	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Chrysene	**44**		35	9.6	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Fluoranthene	**75**		35	6.5	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1

Client Sample ID: R35-1(0-1)-030816
Date Collected: 03/08/16 13:58
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-6
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.1	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Isophorone	<180		180	39	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Phenanthrene	**31**	**J**	35	4.9	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Phenol	<180		180	78	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1
Pyrene	**110**		35	7.0	ug/Kg	☼	03/10/16 15:26	03/15/16 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*35 - 137*	*03/10/16 15:26*	*03/15/16 15:09*	*1*
2-Fluorobiphenyl	*82*		*25 - 119*	*03/10/16 15:26*	*03/15/16 15:09*	*1*
2-Fluorophenol	*89*		*25 - 110*	*03/10/16 15:26*	*03/15/16 15:09*	*1*
Nitrobenzene-d5	*72*		*25 - 115*	*03/10/16 15:26*	*03/15/16 15:09*	*1*
Phenol-d5	*89*		*31 - 110*	*03/10/16 15:26*	*03/15/16 15:09*	*1*
Terphenyl-d14	*160*	*X*	*36 - 134*	*03/10/16 15:26*	*03/15/16 15:09*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:52	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:52	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:52	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:52	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:52	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:52	1
Manganese	**1.2**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:52	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:52	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:52	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:52	1
Zinc	**0.080**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.026**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:19	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:19	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:19	1
Chromium	**0.068**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:19	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:19	1
Copper	**0.056**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:19	1
Iron	**68**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:19	1
Lead	**0.081**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:19	1
Manganese	**0.68**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:19	1
Nickel	**0.054**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:19	1

Client Sample ID: R35-1(0-1)-030816
Date Collected: 03/08/16 13:58
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-6
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:19	1
Zinc	**0.39**	**J B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.22**	**J**	1.0	0.21	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Arsenic	**4.2**		0.51	0.24	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Barium	**30**		0.51	0.094	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Beryllium	**0.28**		0.21	0.045	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Cadmium	**0.10**		0.10	0.030	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Calcium	**59000**	**B**	100	33	mg/Kg	☼	03/10/16 15:40	03/11/16 17:20	10
Chromium	**10**	**B**	0.51	0.088	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Cobalt	**4.9**		0.26	0.058	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Copper	**8.7**		0.51	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Iron	**8100**	**B**	10	4.0	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Lead	**42**		0.26	0.13	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Magnesium	**22000**	**B**	5.1	2.1	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Manganese	**210**		0.51	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Nickel	**10**		0.51	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Potassium	**570**		26	4.2	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Sodium	**660**		51	6.8	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Vanadium	**9.9**		0.26	0.075	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1
Zinc	**40**		1.0	0.33	mg/Kg	☼	03/10/16 15:40	03/11/16 15:46	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 13:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		17	8.8	ug/Kg	☼	03/12/16 17:00	03/13/16 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.47**		0.200	0.200	SU			03/10/16 12:34	1

Client Sample ID: R35-2(0-1)-030816
Date Collected: 03/08/16 14:05
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-8
Matrix: Solid
Percent Solids: 85.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 17:49	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 17:49	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/09/16 17:49	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 17:49	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 17:49	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 17:49	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 17:49	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 17:49	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/09/16 17:49	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 17:49	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 17:49	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 17:49	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 17:49	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/09/16 17:49	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 17:49	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/09/16 17:49	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 17:49	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/09/16 17:49	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 17:49	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 17:49	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/09/16 17:49	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/09/16 17:49	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 17:49	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 17:49	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 17:49	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 17:49	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/09/16 17:49	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 17:49	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 17:49	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/09/16 17:49	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 17:49	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 17:49	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 17:49	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 17:49	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 17:49	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/09/16 17:49*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/09/16 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/09/16 17:49*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 17:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1

Client Sample ID: R35-2(0-1)-030816
Date Collected: 03/08/16 14:05
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-8
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Acenaphthylene	**9.3**	**J**	37	4.9	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Anthracene	**6.3**	**J**	37	6.3	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Benzo[a]anthracene	**86**	*	37	5.0	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Benzo[a]pyrene	**140**	*	37	7.3	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Benzo[b]fluoranthene	**200**	*	37	8.1	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Benzo[g,h,i]perylene	**110**	*	37	12	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Benzo[k]fluoranthene	**92**	*	37	11	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Bis(2-ethylhexyl) phthalate	**190**	*	190	68	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Carbazole	<190		190	94	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Chrysene	**94**	*	37	10	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Fluoranthene	**65**		37	7.0	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1

Client Sample ID: R35-2(0-1)-030816
Date Collected: 03/08/16 14:05
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-8
Matrix: Solid
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	**110**	*	37	9.7	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Isophorone	<190		190	42	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Phenanthrene	**29**	J	37	5.2	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Phenol	<190		190	83	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1
Pyrene	**280**	*	37	7.4	ug/Kg	☼	03/10/16 15:26	03/14/16 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*35 - 137*	*03/10/16 15:26*	*03/14/16 18:08*	*1*
2-Fluorobiphenyl	*77*		*25 - 119*	*03/10/16 15:26*	*03/14/16 18:08*	*1*
2-Fluorophenol	*80*		*25 - 110*	*03/10/16 15:26*	*03/14/16 18:08*	*1*
Nitrobenzene-d5	*63*		*25 - 115*	*03/10/16 15:26*	*03/14/16 18:08*	*1*
Phenol-d5	*78*		*31 - 110*	*03/10/16 15:26*	*03/14/16 18:08*	*1*
Terphenyl-d14	*235*	*X *	*36 - 134*	*03/10/16 15:26*	*03/14/16 18:08*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 18:02	1
Barium	**0.44**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:02	1
Copper	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:02	1
Iron	<0.40		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 18:02	1
Manganese	**0.42**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 18:02	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 18:02	1
Zinc	**0.18**	J B	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.041**	J	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Barium	**0.46**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 17:33	1
Beryllium	**0.0044**		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 17:33	1
Cadmium	**0.0023**	J ^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 17:33	1
Chromium	**0.10**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Cobalt	**0.024**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Copper	**0.082**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Iron	**110**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 17:33	1
Lead	**0.12**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 17:33	1
Manganese	**1.1**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Nickel	**0.081**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 17:33	1

Client Sample ID: R35-2(0-1)-030816
Date Collected: 03/08/16 14:05
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108487-8
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 17:33	1
Zinc	**0.76**	**B**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 17:33	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J**	1.1	0.23	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Arsenic	**4.8**		0.56	0.26	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Barium	**38**		0.56	0.10	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Beryllium	**0.36**		0.23	0.049	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Cadmium	**0.13**		0.11	0.033	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Calcium	**32000**	**B**	11	3.6	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Chromium	**9.4**	**B**	0.56	0.097	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Cobalt	**5.2**		0.28	0.064	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Copper	**9.5**		0.56	0.12	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Iron	**9800**	**B**	11	4.3	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Lead	**27**		0.28	0.14	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Magnesium	**20000**	**B**	5.6	2.3	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Manganese	**310**		0.56	0.11	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Nickel	**12**		0.56	0.15	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Potassium	**840**		28	4.6	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Sodium	**440**		56	7.4	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Vanadium	**12**		0.28	0.082	mg/Kg	☼	03/10/16 15:40	03/11/16 16:08	1
Zinc	**42**		1.1	0.36	mg/Kg	☼	03/10/16 15:40	03/13/16 01:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 20:00	03/16/16 14:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**18**		17	9.2	ug/Kg	☼	03/12/16 17:00	03/13/16 19:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.59**		0.200	0.200	SU			03/10/16 12:40	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

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

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108487-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108487
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

500-108487 COC
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH					Comments
1		AL32-7(0-4)-030816	3/8/16	1215	2	S	X	X	X	X	X					
2		AL32-8(0-4)-030816	3/8/16	1317	2	S	X	X	X	X	X					
3		AL32-4(0-1)-030816	3/8/16	1322	2	S	X	X	X	X	X					
4		VL34-1(0-1)-030816	3/8/16	1331	2	S	X	X	X	X	X					
5		VL34-1(0-1)-030816D	3/8/16	1331	2	S	X	X	X	X	X					
6		R35-1(0-1)-030816	3/8/16	1358	2	S	X	X	X	X	X					
7		VL34-2(0-1)-030816	3/8/16	1350	2	S	X	X	X	X	X					
8		R35-2(0-1)-030816	3/8/16	1405	2	S	X	X	X	X	X					
9		VL34-3(0-1)-030816	3/8/16	1412	2	S	X	X	X	X	X					
10		R33-1(0-1)-030816	3/8/16	1425	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-Chi	03/08/16	16:45

Lab Courier: TA-CHI
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:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-108487

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler: 3.2/1.6

(optional) Report To	(optional) Bill To
Contact: S. Balaesubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 207	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston	
Project Name	
IDOT 034	
Project Location/State	Lab Project #
Wilmington, IL	
Sampler	Lab PM
A. Tuchase	Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP metals	pH					Comments
11		AL32-10(0-1)-030816	3/8/16	1440	2	S		X	X	X	X	X					
12		AL32-11(0-1)-030816	3/8/16	1457	2	S		X	X	X	X	X					
13		AL32-9(0-1)-030816	3/8/16	1504	2	S		X	X	X	X	X					
14		AL32-12(0-1)-030816	3/8/16	1520	2	S		X	X	X	X	X					
15		VL31-1(0-1)-030816	3/8/16	1530	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TA-LHT	03/08/16	16:45
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-LHT

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:

TAL-4124-500 (1209)
3/21/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20595 IL 102 (ISGS Site No. 2946-36)

City: Ritchie State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.254409994 (Decimal Degrees) Longitude: -88.104962639 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.254409994 Longitude: -88.104962639

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 R36-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-36. SEE FIGURE 3-6 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108486-1.
ALSO SEE FIGURE 4-6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-36
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R36-1(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	
Location ID	R36-1	
Depth	0 - 1	
ISGS Site No.	2946-36	
Parameter		
Laboratory pH (s.u.)	7.88	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
2-Methylnaphthalene	17 J	---
Acenaphthene	22 J	570000
Acenaphthylene	170	---
Anthracene	99	1.20E+07
Benzo(a)anthracene	440 J	900 / 1100 / 1800
Benzo(a)pyrene	600 J	90 / 1300 / 2100
Benzo(b)fluoranthene	820 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	600 J	---
Benzo(k)fluoranthene	390 J	9000
bis(2-Ethylhexyl)phthalate	12000 J	46000
Butyl benzyl phthalate	3000 J	930000
Chrysene	560 J	88000
Dibenzo(a,h)anthracene	100 J	90 / 200 / 420
Fluoranthene	440	3100000
Fluorene	23 J	560000
Indeno(1,2,3-cd)pyrene	430 J	900 / 900 / 1600
Naphthalene, SVOC	13 J	1800
Phenanthrene	320	---
Pyrene	1300 J	2300000
Total Metals (mg/kg)		
Antimony, Total	0.41 J	5
Arsenic, Total	2	11.3 / 13
Barium, Total	28 J	1500
Beryllium, Total	0.32	22
Cadmium, Total	0.22	5.2
Calcium, Total	130000 J	---
Chromium, Total	9.4 J	21
Cobalt, Total	2.2	20
Copper, Total	10	2900
Iron, Total	5600 J+	15000 / 15900
Lead, Total	100 J	107
Magnesium, Total	76000 J	325000
Manganese, Total	240 J-	630 / 636
Mercury, Total	0.021	0.89
Nickel, Total	6.6 B	100
Potassium, Total	520 J+	---
Sodium, Total	880 J+	---
Vanadium, Total	7.3	550
Zinc, Total	68 J+	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.29 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.53	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Zinc, TCLP	0.087 J	5

Summary Table of ISGS Site No. 2946-36
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R36-1(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	
Location ID	R36-1	
Depth	0 - 1	
ISGS Site No.	2946-36	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.051 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.012 J	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.014 J	0.65
Iron, SPLP	6.9 J-	5
Lead, SPLP	0.11 J-	0.0075
Manganese, SPLP	0.19 J+	0.15
Mercury, SPLP	0.021	0.002
Nickel, SPLP	ND	0.1
Zinc, SPLP	0.14 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108486-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/17/2016 2:36:37 PM

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

Client Sample ID: R36-1(0-1)-030816
Date Collected: 03/08/16 11:09
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-15
Matrix: Solid
Percent Solids: 87.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/10/16 05:35	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:35	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/10/16 05:35	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:35	1
Bromomethane	<5.7	*	5.7	2.1	ug/Kg	☼		03/10/16 05:35	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 05:35	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:35	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:35	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/10/16 05:35	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 05:35	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:35	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:35	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:35	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/10/16 05:35	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:35	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/10/16 05:35	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/10/16 05:35	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 05:35	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 05:35	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:35	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/10/16 05:35	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/10/16 05:35	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 05:35	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:35	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:35	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:35	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/10/16 05:35	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/10/16 05:35	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/10/16 05:35	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:35	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/10/16 05:35	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/10/16 05:35	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/10/16 05:35	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/10/16 05:35	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/10/16 05:35	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/10/16 05:35*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/10/16 05:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*03/10/16 05:35*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/10/16 05:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1

Client Sample ID: R36-1(0-1)-030816
Date Collected: 03/08/16 11:09
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-15
Matrix: Solid
Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2-Methylnaphthalene	**17**	**J**	35	6.6	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Acenaphthene	**22**	**J**	35	6.4	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Acenaphthylene	**170**		35	4.7	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Anthracene	**99**		35	6.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Benzo[a]anthracene	**440**	*	35	4.8	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Benzo[a]pyrene	**600**	*	35	6.9	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Benzo[b]fluoranthene	**820**	*	35	7.7	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Benzo[g,h,i]perylene	**600**	*	35	11	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Benzo[k]fluoranthene	**390**	*	35	11	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Carbazole	<180		180	89	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Chrysene	**560**	*	35	9.7	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Dibenz(a,h)anthracene	**100**	*	35	6.9	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Fluoranthene	**440**		35	6.6	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Fluorene	**23**	**J**	35	5.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Indeno[1,2,3-cd]pyrene	**430**	*	35	9.2	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1

Client Sample ID: R36-1(0-1)-030816
Date Collected: 03/08/16 11:09
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-15
Matrix: Solid
Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**13**	**J**	35	5.5	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Phenanthrene	**320**		35	5.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Phenol	<180		180	79	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1
Pyrene	**1300**	*	35	7.1	ug/Kg	☼	03/09/16 15:57	03/12/16 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*35 - 137*	*03/09/16 15:57*	*03/12/16 18:33*	*1*
2-Fluorobiphenyl	*101*		*25 - 119*	*03/09/16 15:57*	*03/12/16 18:33*	*1*
2-Fluorophenol	*90*		*25 - 110*	*03/09/16 15:57*	*03/12/16 18:33*	*1*
Nitrobenzene-d5	*86*		*25 - 115*	*03/09/16 15:57*	*03/12/16 18:33*	*1*
Phenol-d5	*88*		*31 - 110*	*03/09/16 15:57*	*03/12/16 18:33*	*1*
Terphenyl-d14	*192*	*X *	*36 - 134*	*03/09/16 15:57*	*03/12/16 18:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**12000**	*	1800	650	ug/Kg	☼	03/09/16 15:57	03/13/16 23:08	10
Butyl benzyl phthalate	**3000**	*	1800	680	ug/Kg	☼	03/09/16 15:57	03/13/16 23:08	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 20:49	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 20:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 20:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 20:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:49	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:49	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 20:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 20:49	1
Manganese	**0.53**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 20:49	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:49	1
Zinc	**0.087**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 20:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 14:19	1
Barium	**0.051**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 14:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 14:19	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 14:19	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:19	1
Copper	**0.014**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:19	1
Iron	**6.9**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 14:19	1
Lead	**0.11**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 14:19	1

Client Sample ID: R36-1(0-1)-030816
Date Collected: 03/08/16 11:09
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-15
Matrix: Solid
Percent Solids: 87.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.19		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 14:19	1
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:19	1
Zinc	0.14	J	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 14:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.41	J	1.1	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Arsenic	2.0		0.56	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Barium	28		0.56	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Beryllium	0.32		0.23	0.049	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Cadmium	0.22		0.11	0.033	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Calcium	130000	B	110	36	mg/Kg	☼	03/10/16 15:37	03/11/16 19:42	10
Chromium	9.4	B	2.8	0.097	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Cobalt	2.2		0.28	0.064	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Copper	10		0.56	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Iron	5600		11	4.4	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Lead	100		0.28	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Magnesium	76000	B	56	23	mg/Kg	☼	03/10/16 15:37	03/11/16 19:42	10
Manganese	240		0.56	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Nickel	6.6	B	0.56	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Potassium	520		28	4.6	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Sodium	880	B	56	7.5	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Vanadium	7.3		0.28	0.082	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1
Zinc	68		1.1	0.36	mg/Kg	☼	03/10/16 15:37	03/11/16 15:24	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	21		19	9.7	ug/Kg	☼	03/12/16 17:00	03/13/16 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88		0.200	0.200	SU			03/10/16 12:05	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108486-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: S. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108486

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 3.2/1.6

Client: Weston
Client Project #:
Project Name: IDot 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total metals	TCLP / SPLP metals	pH					Comments
1		CB-1(0-1)-030816	3/8/16	0835	2	S	X	X	X	X	X					
2		CB-1(0-1)-030816D	3/8/16	0835	2	S	X	X	X	X	X					
3		R41-1(0-1)-030816	3/8/16	0900	2	S	X	X	X	X	X					
4		R42-1(0-1)-030816	3/8/16	0914	2	S	X	X	X	X	X					
5		R41-2(0-1)-030816	3/8/16	0922	2	S	X	X	X	X	X					
6		R42-2(0-1)-030816	3/8/16	0934	2	S	X	X	X	X	X					
7		R41-3(0-1)-030816	3/8/16	0940	2	S	X	X	X	X	X					
8		R42-3(0-1)-030816	3/8/16	0953	2	S	X	X	X	X	X					
9		R41-4(0-1)-030816	3/8/16	1002	2	S	X	X	X	X	X					
10		R42-4(0-1)-030816	3/8/16	1013	2	S	X	X	X	X	X					

Preservative Key
1° 0 4°
4° 4°
4° 4°
1 to 4°

500-108486 COC

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	Company	Date	Time	Received By	Company	Date	Time
[illegible]	Weston	3/8/16	1540	[illegible]	TA	3/8/16	1540
[illegible]	TA	3/8/16	1645	[illegible]	TA-1+1	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lincolnshire, IL 60069
Phone: 224-364-7252
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108486
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
11		SMe-1(0-1)-030816	3/8/16	1044	2	S		X	X	X	X	X					
12		R39-1(0-1)-030816	3/8/16	1055	2	S		X	X	X	X	X					
13		R37-1(0-1)-030816	3/8/16	1102	2	S		X	X	X	X	X					
14		R37-1(0-1)-030816D	3/8/16	1102	2	S		X	X	X	X	X					
15		R36-1(0-1)-030816	3/8/16	1109	2	S		X	X	X	X	X					
16		AL32-1(0-1)-030816	3/8/16	1117	2	S		X	X	X	X	X					
17		AL32-5(0-1)-030816	3/8/16	1130	2	S		X	X	X	X	X					
18		AL32-2(0-1)-030816	3/8/16	1135	2	S		X	X	X	X	X					
19		AL32-6(0-1)-030816	3/8/16	1145	2	S		X	X	X	X	X					
20		AL32-3(0-1)-030816	3/8/16	1153	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TAL-IRL	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/17/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20604 to 20612 IL 102 (ISGS Site No. 2946-37)

City: Ritchie State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.254728188 (Decimal Degrees) Longitude: -88.105165450 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.254728188 Longitude: -88.105165450

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 R37-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-37. SEE FIGURE 3-6 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108486-1.
ALSO SEE FIGURE 4-6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

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

Summary Table of ISGS Site No. 2946-37
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R37-1(0-1)-030816	R37-1(0-1)-030816D	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	R37-1	R37-1	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-37	2946-37	
Parameter			
Laboratory pH (s.u.)	8.72	8.81	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
2-Methylnaphthalene	9.1 J	ND	---
Acenaphthylene	20 J	27 J	---
Anthracene	25 J	10 J	1.20E+07
Benzo(a)anthracene	89 J	92 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	140 J	90 / 1300 / 2100
Benzo(b)fluoranthene	140 J	170 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	97 J	180 J	---
Benzo(k)fluoranthene	71 J	62 J	9000
bis(2-Ethylhexyl)phthalate	70 J	ND	46000
Chrysene	120 J	100 J	88000
Dibenzo(a,h)anthracene	ND	19 J	90 / 200 / 420
Fluoranthene	110	72	3100000
Indeno(1,2,3-cd)pyrene	ND	98 J	900 / 900 / 1600
Phenanthrene	83	36	---
Pyrene	300 J	250 J	2300000
Total Metals (mg/kg)			
Antimony, Total	0.37 J	ND	5
Arsenic, Total	2.6	2.7	11.3 / 13
Barium, Total	36 J	42 J	1500
Beryllium, Total	0.28	0.32	22
Cadmium, Total	0.24	0.22	5.2
Calcium, Total	44000 J	31000 J	---
Chromium, Total	18 J	12 J	21
Cobalt, Total	3.3	3.8	20
Copper, Total	7.7	8.1	2900
Iron, Total	6200 J+	7200 J+	15000 / 15900
Lead, Total	110 J	69 J	107
Magnesium, Total	22000 J	19000 J	325000
Manganese, Total	280 J-	320 J-	630 / 636
Mercury, Total	0.021	0.022	0.89
Nickel, Total	7.2 B	8.2 B	100
Potassium, Total	550 J+	670 J+	---
Sodium, Total	400 J+	440 J+	---
Vanadium, Total	8.2	8.9	550
Zinc, Total	63 J+	59 J+	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.26 J	0.21 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.1	1.1	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Zinc, TCLP	0.21 J	0.1 J	5

Summary Table of ISGS Site No. 2946-37
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R37-1(0-1)-030816	R37-1(0-1)-030816D	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	R37-1	R37-1	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-37	2946-37	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.15 J	0.15 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.028	0.031	0.1
Cobalt, SPLP	ND	ND	1
Copper, SPLP	0.02 J	0.023 J	0.65
Iron, SPLP	22 J-	27 J-	5
Lead, SPLP	0.11 J-	0.12 J-	0.0075
Manganese, SPLP	0.53 J+	0.59 J+	0.15
Mercury, SPLP	0.021	0.022	0.002
Nickel, SPLP	0.017 J	0.02 J	0.1
Zinc, SPLP	0.19 J	0.37 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108486-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/17/2016 2:36:37 PM

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

Client Sample ID: R37-1(0-1)-030816
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-13
Matrix: Solid
Percent Solids: 91.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/10/16 04:45	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 04:45	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/10/16 04:45	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 04:45	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/10/16 04:45	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 04:45	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 04:45	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 04:45	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/10/16 04:45	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 04:45	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 04:45	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 04:45	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 04:45	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/10/16 04:45	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 04:45	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/10/16 04:45	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 04:45	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 04:45	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 04:45	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 04:45	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/10/16 04:45	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/10/16 04:45	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 04:45	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 04:45	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 04:45	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 04:45	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/10/16 04:45	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 04:45	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/10/16 04:45	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 04:45	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 04:45	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 04:45	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 04:45	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 04:45	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 04:45	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/10/16 04:45*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*03/10/16 04:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*03/10/16 04:45*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/10/16 04:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
1,4-Dichlorobenzene	<170		170	45	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1

Client Sample ID: R37-1(0-1)-030816
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-13
Matrix: Solid
Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2-Methylnaphthalene	**9.1**	**J**	34	6.4	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
3,3'-Dichlorobenzidine	<170	*	170	49	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
4-Nitroaniline	<340		340	150	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Acenaphthylene	**20**	**J**	34	4.6	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Anthracene	**25**	**J**	34	5.8	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Benzo[a]anthracene	**89**	*****	34	4.7	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Benzo[a]pyrene	<34	*	34	6.7	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Benzo[b]fluoranthene	**140**	*****	34	7.5	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Benzo[g,h,i]perylene	**97**	*****	34	11	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Benzo[k]fluoranthene	**71**	*****	34	10	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Bis(2-ethylhexyl) phthalate	**70**	**J ***	170	63	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Carbazole	<170		170	87	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Chrysene	**120**	*****	34	9.5	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Dibenz(a,h)anthracene	<34	*	34	6.7	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Fluoranthene	**110**		34	6.4	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Fluorene	<34		34	4.9	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1

Client Sample ID: R37-1(0-1)-030816
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-13
Matrix: Solid
Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<34	*	34	9.0	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Isophorone	<170		170	39	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Nitrobenzene	<34		34	8.7	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Phenanthrene	**83**		34	4.8	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Phenol	<170		170	77	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1
Pyrene	**300**	*	34	6.9	ug/Kg	☼	03/15/16 09:45	03/16/16 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*35 - 137*	*03/15/16 09:45*	*03/16/16 14:04*	*1*
2-Fluorobiphenyl	*101*		*25 - 119*	*03/15/16 09:45*	*03/16/16 14:04*	*1*
2-Fluorophenol	*101*		*25 - 110*	*03/15/16 09:45*	*03/16/16 14:04*	*1*
Nitrobenzene-d5	*97*		*25 - 115*	*03/15/16 09:45*	*03/16/16 14:04*	*1*
Phenol-d5	*97*		*31 - 110*	*03/15/16 09:45*	*03/16/16 14:04*	*1*
Terphenyl-d14	*206*	*X *	*36 - 134*	*03/15/16 09:45*	*03/16/16 14:04*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 20:30	1
Barium	**0.26**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 20:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 20:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 20:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:30	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:30	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 20:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 20:30	1
Manganese	**1.1**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 20:30	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:30	1
Zinc	**0.21**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 14:05	1
Barium	**0.15**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 14:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 14:05	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 14:05	1
Chromium	**0.028**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:05	1
Copper	**0.020**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:05	1
Iron	**22**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 14:05	1
Lead	**0.11**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 14:05	1
Manganese	**0.53**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:05	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 14:05	1

Client Sample ID: R37-1(0-1)-030816
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-13
Matrix: Solid
Percent Solids: 91.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:05	1
Zinc	**0.19**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 14:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J**	1.1	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Arsenic	**2.6**		0.54	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Barium	**36**		0.54	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Beryllium	**0.28**		0.22	0.047	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Cadmium	**0.24**		0.11	0.032	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Calcium	**44000**	**B**	110	35	mg/Kg	☼	03/10/16 15:37	03/11/16 19:38	10
Chromium	**18**	**B**	2.7	0.094	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Cobalt	**3.3**		0.27	0.061	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Copper	**7.7**		0.54	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Iron	**6200**		11	4.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Lead	**110**		0.27	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Magnesium	**22000**	**B**	5.4	2.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Manganese	**280**		0.54	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Nickel	**7.2**	**B**	0.54	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Potassium	**550**		27	4.4	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Sodium	**400**	**B**	54	7.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Vanadium	**8.2**		0.27	0.079	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1
Zinc	**63**		1.1	0.34	mg/Kg	☼	03/10/16 15:37	03/11/16 15:14	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		16	8.3	ug/Kg	☼	03/12/16 17:00	03/13/16 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.72**		0.200	0.200	SU			03/10/16 11:59	1

Client Sample ID: R37-1(0-1)-030816D
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-14
Matrix: Solid
Percent Solids: 90.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/10/16 05:10	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 05:10	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/10/16 05:10	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:10	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/10/16 05:10	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 05:10	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 05:10	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:10	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/10/16 05:10	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:10	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:10	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:10	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:10	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/10/16 05:10	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:10	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/10/16 05:10	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 05:10	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 05:10	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/10/16 05:10	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 05:10	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/10/16 05:10	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/10/16 05:10	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 05:10	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:10	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:10	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:10	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/10/16 05:10	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:10	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/10/16 05:10	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 05:10	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/10/16 05:10	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:10	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 05:10	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 05:10	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 05:10	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/10/16 05:10*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/10/16 05:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/10/16 05:10*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/10/16 05:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1

Client Sample ID: R37-1(0-1)-030816D
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-14
Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Acenaphthylene	**27**	**J**	36	4.7	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Anthracene	**10**	**J**	36	6.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Benzo[a]anthracene	**92**	*****	36	4.8	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Benzo[a]pyrene	**140**	*****	36	7.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Benzo[b]fluoranthene	**170**	*****	36	7.8	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Benzo[g,h,i]perylene	**180**	*****	36	12	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Benzo[k]fluoranthene	**62**	*****	36	11	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Carbazole	<180		180	90	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Chrysene	**100**	*****	36	9.8	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Dibenz(a,h)anthracene	**19**	**J ***	36	7.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Fluoranthene	**72**		36	6.7	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1

Client Sample ID: R37-1(0-1)-030816D
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-14
Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**98**	*	36	9.3	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Phenanthrene	**36**		36	5.0	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Phenol	<180		180	80	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1
Pyrene	**250**	*	36	7.2	ug/Kg	☼	03/09/16 15:57	03/12/16 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*35 - 137*	*03/09/16 15:57*	*03/12/16 18:09*	*1*
2-Fluorobiphenyl	*107*		*25 - 119*	*03/09/16 15:57*	*03/12/16 18:09*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/09/16 15:57*	*03/12/16 18:09*	*1*
Nitrobenzene-d5	*89*		*25 - 115*	*03/09/16 15:57*	*03/12/16 18:09*	*1*
Phenol-d5	*97*		*31 - 110*	*03/09/16 15:57*	*03/12/16 18:09*	*1*
Terphenyl-d14	*225*	*X *	*36 - 134*	*03/09/16 15:57*	*03/12/16 18:09*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 20:36	1
Barium	**0.21**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 20:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 20:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 20:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:36	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:36	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 20:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 20:36	1
Manganese	**1.1**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:36	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 20:36	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:36	1
Zinc	**0.10**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 14:12	1
Barium	**0.15**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 14:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 14:12	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 14:12	1
Chromium	**0.031**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:12	1
Copper	**0.023**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:12	1
Iron	**27**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 14:12	1
Lead	**0.12**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 14:12	1
Manganese	**0.59**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:12	1
Nickel	**0.020**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 14:12	1

Client Sample ID: R37-1(0-1)-030816D
Date Collected: 03/08/16 11:02
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-14
Matrix: Solid
Percent Solids: 90.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 14:12	1
Zinc	**0.37**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 14:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Arsenic	**2.7**		0.54	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Barium	**42**		0.54	0.098	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Beryllium	**0.32**		0.21	0.046	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Cadmium	**0.22**		0.11	0.031	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Calcium	**31000**	**B**	11	3.5	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Chromium	**12**	**B**	2.7	0.092	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Cobalt	**3.8**		0.27	0.061	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Copper	**8.1**		0.54	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Iron	**7200**		11	4.1	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Lead	**69**		0.27	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Magnesium	**19000**	**B**	5.4	2.2	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Manganese	**320**		0.54	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Nickel	**8.2**	**B**	0.54	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Potassium	**670**		27	4.4	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Sodium	**440**	**B**	54	7.1	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Vanadium	**8.9**		0.27	0.078	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1
Zinc	**59**		1.1	0.34	mg/Kg	☼	03/10/16 15:37	03/11/16 15:19	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/15/16 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**22**		16	8.6	ug/Kg	☼	03/12/16 17:00	03/13/16 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.81**		0.200	0.200	SU			03/10/16 12:02	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108486-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: S. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108486

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 3.2/1.6

Client: Weston
Client Project #:
Project Name: IDot 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total metals	TCLP / SPLP metals	pH					Comments
1		CB-1(0-1)-030816	3/8/16	0835	2	S	X	X	X	X	X					
2		CB-1(0-1)-030816D	3/8/16	0835	2	S	X	X	X	X	X					
3		R41-1(0-1)-030816	3/8/16	0900	2	S	X	X	X	X	X					
4		R42-1(0-1)-030816	3/8/16	0914	2	S	X	X	X	X	X					
5		R41-2(0-1)-030816	3/8/16	0922	2	S	X	X	X	X	X					
6		R42-2(0-1)-030816	3/8/16	0934	2	S	X	X	X	X	X					
7		R41-3(0-1)-030816	3/8/16	0940	2	S	X	X	X	X	X					
8		R42-3(0-1)-030816	3/8/16	0953	2	S	X	X	X	X	X					
9		R41-4(0-1)-030816	3/8/16	1002	2	S	X	X	X	X	X					
10		R42-4(0-1)-030816	3/8/16	1013	2	S	X	X	X	X	X					

Preservative Key
1° 0 4°
4° 4°
4° 4°
1 to 4°

500-108486 COC

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	Company	Date	Time	Received By	Company	Date	Time
[illegible]	Weston	3/8/16	1540	[illegible]	TA	3/8/16	1540
[illegible]	TA	3/8/16	1645	[illegible]	TA-1+1	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lincolnshire, IL 60069
Phone: 224-364-7252
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108486
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
11		SMe-1(0-1)-030816	3/8/16	1044	2	S		X	X	X	X	X					
12		R39-1(0-1)-030816	3/8/16	1055	2	S		X	X	X	X	X					
13		R37-1(0-1)-030816	3/8/16	1102	2	S		X	X	X	X	X					
14		R37-1(0-1)-030816D	3/8/16	1102	2	S		X	X	X	X	X					
15		R36-1(0-1)-030816	3/8/16	1109	2	S		X	X	X	X	X					
16		AL32-1(0-1)-030816	3/8/16	1117	2	S		X	X	X	X	X					
17		AL32-5(0-1)-030816	3/8/16	1130	2	S		X	X	X	X	X					
18		AL32-2(0-1)-030816	3/8/16	1135	2	S		X	X	X	X	X					
19		AL32-6(0-1)-030816	3/8/16	1145	2	S		X	X	X	X	X					
20		AL32-3(0-1)-030816	3/8/16	1153	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TAL-IRL	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/17/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20684 to 28750 IL 102 (ISGS Site No. 2946-41)

City: Ritchie State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.257458234 (Decimal Degrees) Longitude: -88.108279893 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.257458234 Longitude: -88.108279893

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 R41-1 THROUGH R41-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-41. SEE FIGURES 3-5 AND 3-6 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108486-1.
ALSO SEE FIGURE 4-5 AND 4-6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional ~~Geologist~~ Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-41
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R41-1(0-1)-030816	R41-2(0-1)-030816	R41-3(0-1)-030816	Soil Reference Concentrations[A]
Sample Date	3/8/2016	3/8/2016	3/8/2016	
Location ID	R41-1	R41-2	R41-3	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-41	2946-41	2946-41	
Parameter				
Laboratory pH (s.u.)	7.92	8.6	8.11	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
2-Methylnaphthalene	ND	36	ND	---
Acenaphthene	9.2 J	9.5 J	9.6 J	570000
Acenaphthylene	150	120	180	---
Anthracene	57	53	44	1.20E+07
Benzo(a)anthracene	360 J	510 J	180 J	900 / 1100 / 1800
Benzo(a)pyrene	480 J	680 J	300 J	90 / 1300 / 2100
Benzo(b)fluoranthene	750 J	1000 J	430 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	540 J	590 J	420 J	---
Benzo(k)fluoranthene	320 J	350 J	200 J	9000
bis(2-Ethylhexyl)phthalate	210 J	94 J	150 J	46000
Chrysene	400 J	490 J	210 J	88000
Dibenzo(a,h)anthracene	93 J	100 J	81 J	90 / 200 / 420
Fluoranthene	380	430	180	3100000
Fluorene	10 J	14 J	7.2 J	560000
Indeno(1,2,3-cd)pyrene	370 J	430 J	310 J	900 / 900 / 1600
Naphthalene, SVOC	5.8 J	ND	ND	1800
Phenanthrene	150	120	100	---
Pyrene	1200 J	1300 J	460 J	2300000
Total Metals (mg/kg)				
Antimony, Total	0.22 J	0.3 J	0.26 J	5
Arsenic, Total	2.1	2	2.4	11.3 / 13
Barium, Total	34 J	20 J	29 J	1500
Beryllium, Total	0.22	0.22	0.26	22
Cadmium, Total	0.13	0.12	0.15	5.2
Calcium, Total	23000 J	72000 J	43000 J	---
Chromium, Total	7.8 J	8.3 J	5.9 J	21
Cobalt, Total	2.6	2.3	2.4	20
Copper, Total	7.4	6.4	7.7	2900
Iron, Total	5400 J+	5700 J+	5600 J+	15000 / 15900
Lead, Total	47 J	52 J	120 J	107
Magnesium, Total	14000 J	39000 J	22000 J	325000
Manganese, Total	200 J-	200 J-	240 J-	630 / 636
Mercury, Total	0.017 J	0.015 J	0.014 J	0.89
Nickel, Total	6.2 B	5.9 B	6 B	100
Potassium, Total	310 J+	380 J+	360 J+	---
Sodium, Total	630 J+	510 J+	500 J+	---
Vanadium, Total	8.6	6.8	8.3	550
Zinc, Total	45 J+	45 J+	47 J+	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.22 J	0.21 J	0.25 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	0.0082	ND	0.0075
Manganese, TCLP	0.52	0.9	0.79	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Zinc, TCLP	0.18 J	0.16 J	0.18 J	5

Summary Table of ISGS Site No. 2946-41
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R41-1(0-1)-030816	R41-2(0-1)-030816	R41-3(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	3/8/2016	
Location ID	R41-1	R41-2	R41-3	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-41	2946-41	2946-41	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	ND	ND	0.013 J	0.05
Barium, SPLP	0.17 J	0.17 J	0.22 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.029	0.032	0.039	0.1
Cobalt, SPLP	ND	ND	0.011 J	1
Copper, SPLP	0.029	0.032	0.058	0.65
Iron, SPLP	26 J-	27 J-	37 J-	5
Lead, SPLP	0.12 J-	0.21 J-	0.21 J-	0.0075
Manganese, SPLP	0.66 J+	0.68 J+	0.92 J+	0.15
Mercury, SPLP	0.017 J	0.015 J	0.014 J	0.002
Nickel, SPLP	0.022 J	0.026	0.031	0.1
Zinc, SPLP	0.21 J	0.31 J	0.34 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108486-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/17/2016 2:36:37 PM

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

Client Sample ID: R41-1(0-1)-030816
Date Collected: 03/08/16 09:00
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-3
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/10/16 00:34	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:34	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/10/16 00:34	1
Bromoform	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:34	1
Bromomethane	<5.6	*	5.6	2.1	ug/Kg	☼		03/10/16 00:34	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 00:34	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:34	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:34	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/10/16 00:34	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 00:34	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 00:34	1
cis-1,2-Dichloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:34	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:34	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/10/16 00:34	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:34	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/10/16 00:34	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 00:34	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 00:34	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 00:34	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 00:34	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 00:34	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/10/16 00:34	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 00:34	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:34	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:34	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:34	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.90	ug/Kg	☼		03/10/16 00:34	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:34	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 00:34	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 00:34	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 00:34	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:34	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 00:34	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 00:34	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:34	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 122*		*03/10/16 00:34*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*03/10/16 00:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/10/16 00:34*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/10/16 00:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1

Client Sample ID: R41-1(0-1)-030816
Date Collected: 03/08/16 09:00
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-3
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2-Methylnaphthalene	<35		35	6.6	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Acenaphthene	**9.2**	**J**	35	6.4	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Acenaphthylene	**150**		35	4.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Anthracene	**57**		35	6.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Benzo[a]anthracene	**360**	*	35	4.8	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Benzo[a]pyrene	**480**	*	35	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Benzo[b]fluoranthene	**750**	*	35	7.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Benzo[g,h,i]perylene	**540**	*	35	11	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Benzo[k]fluoranthene	**320**	*	35	11	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Bis(2-ethylhexyl) phthalate	**210**	*	180	65	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Carbazole	<180		180	89	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Chrysene	**400**	*	35	9.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Dibenz(a,h)anthracene	**93**	*	35	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Fluoranthene	**380**		35	6.6	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Fluorene	**10**	**J**	35	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1

Client Sample ID: R41-1(0-1)-030816
Date Collected: 03/08/16 09:00
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-3
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**370**	*	35	9.2	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Naphthalene	**5.8**	J	35	5.5	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Phenanthrene	**150**		35	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Phenol	<180		180	79	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1
Pyrene	**1200**	*	35	7.1	ug/Kg	☼	03/09/16 15:57	03/13/16 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*35 - 137*	*03/09/16 15:57*	*03/13/16 17:54*	*1*
2-Fluorobiphenyl	*101*		*25 - 119*	*03/09/16 15:57*	*03/13/16 17:54*	*1*
2-Fluorophenol	*88*		*25 - 110*	*03/09/16 15:57*	*03/13/16 17:54*	*1*
Nitrobenzene-d5	*94*		*25 - 115*	*03/09/16 15:57*	*03/13/16 17:54*	*1*
Phenol-d5	*93*		*31 - 110*	*03/09/16 15:57*	*03/13/16 17:54*	*1*
Terphenyl-d14	*191*	*X *	*36 - 134*	*03/09/16 15:57*	*03/13/16 17:54*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 19:29	1
Barium	**0.22**	J	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 19:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 19:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 19:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:29	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:29	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 19:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 19:29	1
Manganese	**0.52**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 19:29	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:29	1
Zinc	**0.18**	J	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 12:42	1
Barium	**0.17**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 12:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 12:42	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 12:42	1
Chromium	**0.029**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:42	1
Copper	**0.029**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:42	1
Iron	**26**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 12:42	1
Lead	**0.12**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 12:42	1
Manganese	**0.66**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:42	1
Nickel	**0.022**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 12:42	1

Client Sample ID: R41-1(0-1)-030816
Date Collected: 03/08/16 09:00
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-3
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:42	1
Zinc	**0.21**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 12:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.22**	**J**	1.1	0.22	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Arsenic	**2.1**		0.53	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Barium	**34**		0.53	0.097	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Beryllium	**0.22**		0.21	0.046	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Cadmium	**0.13**		0.11	0.031	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Calcium	**23000**	**B**	11	3.4	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Chromium	**7.8**	**B**	2.7	0.091	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Cobalt	**2.6**		0.27	0.060	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Copper	**7.4**		0.53	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Iron	**5400**		11	4.1	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Lead	**47**		0.27	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Magnesium	**14000**	**B**	5.3	2.2	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Manganese	**200**		0.53	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Nickel	**6.2**	**B**	0.53	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Potassium	**310**		27	4.3	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Sodium	**630**	**B**	53	7.0	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Vanadium	**8.6**		0.27	0.078	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1
Zinc	**45**		1.1	0.34	mg/Kg	☼	03/10/16 15:37	03/11/16 14:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/14/16 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**	**J**	19	9.8	ug/Kg	☼	03/12/16 17:00	03/13/16 17:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.92**		0.200	0.200	SU			03/10/16 11:29	1

Client Sample ID: R41-2(0-1)-030816
Date Collected: 03/08/16 09:22
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-5
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/10/16 01:25	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 01:25	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/10/16 01:25	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 01:25	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/10/16 01:25	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 01:25	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 01:25	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 01:25	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/10/16 01:25	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 01:25	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 01:25	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 01:25	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 01:25	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/10/16 01:25	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 01:25	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/10/16 01:25	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 01:25	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 01:25	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 01:25	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 01:25	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/10/16 01:25	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/10/16 01:25	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 01:25	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 01:25	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 01:25	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 01:25	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/10/16 01:25	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 01:25	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/10/16 01:25	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 01:25	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 01:25	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 01:25	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 01:25	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 01:25	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 01:25	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/10/16 01:25*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/10/16 01:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/10/16 01:25*	*1*
Toluene-d8 (Surr)	*114*		*75 - 122*		*03/10/16 01:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1

Client Sample ID: R41-2(0-1)-030816
Date Collected: 03/08/16 09:22
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-5
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2-Methylnaphthalene	**36**		35	6.5	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Acenaphthene	**9.5**	**J**	35	6.3	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Acenaphthylene	**120**		35	4.6	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Anthracene	**53**		35	5.9	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Benzo[a]anthracene	**510**	*	35	4.7	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Benzo[a]pyrene	**680**	*	35	6.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Benzo[b]fluoranthene	**1000**	*	35	7.6	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Benzo[g,h,i]perylene	**590**	*	35	11	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Benzo[k]fluoranthene	**350**	*	35	10	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Bis(2-ethylhexyl) phthalate	**94**	**J** *	180	64	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Butyl benzyl phthalate	<180	*	180	67	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Carbazole	<180		180	88	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Chrysene	**490**	*	35	9.6	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Dibenz(a,h)anthracene	**100**	*	35	6.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Fluoranthene	**430**		35	6.5	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Fluorene	**14**	**J**	35	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1

Client Sample ID: R41-2(0-1)-030816
Date Collected: 03/08/16 09:22
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-5
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**430**	*	35	9.1	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Phenanthrene	**120**		35	4.9	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Phenol	<180		180	78	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1
Pyrene	**1300**	*	35	7.0	ug/Kg	☼	03/09/16 15:57	03/13/16 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*35 - 137*	*03/09/16 15:57*	*03/13/16 19:06*	*1*
2-Fluorobiphenyl	*100*		*25 - 119*	*03/09/16 15:57*	*03/13/16 19:06*	*1*
2-Fluorophenol	*98*		*25 - 110*	*03/09/16 15:57*	*03/13/16 19:06*	*1*
Nitrobenzene-d5	*100*		*25 - 115*	*03/09/16 15:57*	*03/13/16 19:06*	*1*
Phenol-d5	*98*		*31 - 110*	*03/09/16 15:57*	*03/13/16 19:06*	*1*
Terphenyl-d14	*197*	*X *	*36 - 134*	*03/09/16 15:57*	*03/13/16 19:06*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 19:48	1
Barium	**0.21**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 19:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 19:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 19:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:48	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:48	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 19:48	1
Lead	**0.0082**		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 19:48	1
Manganese	**0.90**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 19:48	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:48	1
Zinc	**0.16**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 12:56	1
Barium	**0.17**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 12:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 12:56	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 12:56	1
Chromium	**0.032**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:56	1
Copper	**0.032**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:56	1
Iron	**27**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 12:56	1
Lead	**0.21**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 12:56	1
Manganese	**0.68**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:56	1
Nickel	**0.026**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 12:56	1

Client Sample ID: R41-2(0-1)-030816
Date Collected: 03/08/16 09:22
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-5
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:56	1
Zinc	**0.31**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 12:56	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J**	1.0	0.21	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Arsenic	**2.0**		0.50	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Barium	**20**		0.50	0.092	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Beryllium	**0.22**		0.20	0.044	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Cadmium	**0.12**		0.10	0.029	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Calcium	**72000**	**B**	100	33	mg/Kg	☼	03/10/16 15:37	03/11/16 19:10	10
Chromium	**8.3**	**B**	2.5	0.087	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Cobalt	**2.3**		0.25	0.057	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Copper	**6.4**		0.50	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Iron	**5700**		10	3.9	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Lead	**52**		0.25	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Magnesium	**39000**	**B**	5.0	2.1	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Manganese	**200**		0.50	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Nickel	**5.9**	**B**	0.50	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Potassium	**380**		25	4.1	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Sodium	**510**	**B**	50	6.7	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Vanadium	**6.8**		0.25	0.074	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1
Zinc	**45**		1.0	0.32	mg/Kg	☼	03/10/16 15:37	03/11/16 14:25	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/14/16 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	16	8.5	ug/Kg	☼	03/12/16 17:00	03/13/16 17:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.60**		0.200	0.200	SU			03/10/16 11:35	1

Client Sample ID: R41-3(0-1)-030816
Date Collected: 03/08/16 09:40
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-7
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/10/16 02:15	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 02:15	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/10/16 02:15	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 02:15	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/10/16 02:15	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 02:15	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/10/16 02:15	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 02:15	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/10/16 02:15	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 02:15	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 02:15	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 02:15	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 02:15	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/10/16 02:15	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 02:15	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/10/16 02:15	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 02:15	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 02:15	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 02:15	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 02:15	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/10/16 02:15	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/10/16 02:15	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/10/16 02:15	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 02:15	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 02:15	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 02:15	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/10/16 02:15	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 02:15	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/10/16 02:15	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/10/16 02:15	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 02:15	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 02:15	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/10/16 02:15	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/10/16 02:15	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/10/16 02:15	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/10/16 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/10/16 02:15*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/10/16 02:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/10/16 02:15*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/10/16 02:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1

Client Sample ID: R41-3(0-1)-030816
Date Collected: 03/08/16 09:40
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-7
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2-Methylnaphthalene	<34		34	6.4	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Acenaphthene	**9.6**	**J**	34	6.2	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Acenaphthylene	**180**		34	4.6	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Anthracene	**44**		34	5.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Benzo[a]anthracene	**180**	*	34	4.7	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Benzo[a]pyrene	**300**	*	34	6.7	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Benzo[b]fluoranthene	**430**	*	34	7.5	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Benzo[g,h,i]perylene	**420**	*	34	11	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Benzo[k]fluoranthene	**200**	*	34	10	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Bis(2-ethylhexyl) phthalate	**150**	**J ***	170	63	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Carbazole	<170		170	87	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Chrysene	**210**	*	34	9.4	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Dibenz(a,h)anthracene	**81**	*	34	6.7	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Fluoranthene	**180**		34	6.4	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Fluorene	**7.2**	**J**	34	4.9	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1

Client Sample ID: R41-3(0-1)-030816
Date Collected: 03/08/16 09:40
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-7
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**310**	*	34	9.0	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Isophorone	<170		170	39	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Naphthalene	<34		34	5.3	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Phenanthrene	**100**		34	4.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Phenol	<170		170	77	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1
Pyrene	**460**	*	34	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*35 - 137*	*03/09/16 15:57*	*03/13/16 19:55*	*1*
2-Fluorobiphenyl	*106*		*25 - 119*	*03/09/16 15:57*	*03/13/16 19:55*	*1*
2-Fluorophenol	*105*		*25 - 110*	*03/09/16 15:57*	*03/13/16 19:55*	*1*
Nitrobenzene-d5	*97*		*25 - 115*	*03/09/16 15:57*	*03/13/16 19:55*	*1*
Phenol-d5	*108*		*31 - 110*	*03/09/16 15:57*	*03/13/16 19:55*	*1*
Terphenyl-d14	*213*	*X *	*36 - 134*	*03/09/16 15:57*	*03/13/16 19:55*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 19:59	1
Barium	**0.25**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 19:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 19:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 19:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:59	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:59	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 19:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 19:59	1
Manganese	**0.79**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 19:59	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:59	1
Zinc	**0.18**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**	**J**	0.050	0.010	mg/L		03/13/16 15:00	03/14/16 13:09	1
Barium	**0.22**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 13:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 13:09	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 13:09	1
Chromium	**0.039**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:09	1
Cobalt	**0.011**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:09	1
Copper	**0.058**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:09	1
Iron	**37**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 13:09	1
Lead	**0.21**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 13:09	1
Manganese	**0.92**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:09	1
Nickel	**0.031**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 13:09	1

Client Sample ID: R41-3(0-1)-030816
Date Collected: 03/08/16 09:40
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-7
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:09	1
Zinc	**0.34**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 13:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	1.0	0.21	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Arsenic	**2.4**		0.50	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Barium	**29**		0.50	0.092	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Beryllium	**0.26**		0.20	0.044	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Cadmium	**0.15**		0.10	0.029	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Calcium	**43000**	**B**	100	32	mg/Kg	☼	03/10/16 15:37	03/11/16 19:14	10
Chromium	**5.9**	**B**	2.5	0.087	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Cobalt	**2.4**		0.25	0.057	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Copper	**7.7**		0.50	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Iron	**5600**		10	3.9	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Lead	**120**		0.25	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Magnesium	**22000**	**B**	5.0	2.0	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Manganese	**240**		0.50	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Nickel	**6.0**	**B**	0.50	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Potassium	**360**		25	4.1	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Sodium	**500**	**B**	50	6.7	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Vanadium	**8.3**		0.25	0.074	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1
Zinc	**47**		1.0	0.32	mg/Kg	☼	03/10/16 15:37	03/11/16 14:44	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/14/16 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**14**	**J**	16	8.3	ug/Kg	☼	03/12/16 17:00	03/13/16 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.11**		0.200	0.200	SU			03/10/16 11:40	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108486-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: S. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108486

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 3.2/1.6

Client: Weston
Client Project #:
Project Name: IDot 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total metals	TCLP / SPLP metals	pH					Comments
1		CB-1(0-1)-030816	3/8/16	0835	2	S	X	X	X	X	X					
2		CB-1(0-1)-030816D	3/8/16	0835	2	S	X	X	X	X	X					
3		R41-1(0-1)-030816	3/8/16	0900	2	S	X	X	X	X	X					
4		R42-1(0-1)-030816	3/8/16	0914	2	S	X	X	X	X	X					
5		R41-2(0-1)-030816	3/8/16	0922	2	S	X	X	X	X	X					
6		R42-2(0-1)-030816	3/8/16	0934	2	S	X	X	X	X	X					
7		R41-3(0-1)-030816	3/8/16	0940	2	S	X	X	X	X	X					
8		R42-3(0-1)-030816	3/8/16	0953	2	S	X	X	X	X	X					
9		R41-4(0-1)-030816	3/8/16	1002	2	S	X	X	X	X	X					
10		R42-4(0-1)-030816	3/8/16	1013	2	S	X	X	X	X	X					

Preservative Key
1° 0 4°
4° 4°
4° 4°
1 to 4°

500-108486 COC

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	Company	Date	Time	Received By	Company	Date	Time
[illegible]	Weston	3/8/16	1540	[illegible]	TA	3/8/16	1540
[illegible]	TA	3/8/16	1645	[illegible]	TA-1+1	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lincolnshire, IL 60069
Phone: 224-364-7252
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108486
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
11		SMe-1(0-1)-030816	3/8/16	1044	2	S		X	X	X	X	X					
12		R39-1(0-1)-030816	3/8/16	1055	2	S		X	X	X	X	X					
13		R37-1(0-1)-030816	3/8/16	1102	2	S		X	X	X	X	X					
14		R37-1(0-1)-030816D	3/8/16	1102	2	S		X	X	X	X	X					
15		R36-1(0-1)-030816	3/8/16	1109	2	S		X	X	X	X	X					
16		AL32-1(0-1)-030816	3/8/16	1117	2	S		X	X	X	X	X					
17		AL32-5(0-1)-030816	3/8/16	1130	2	S		X	X	X	X	X					
18		AL32-2(0-1)-030816	3/8/16	1135	2	S		X	X	X	X	X					
19		AL32-6(0-1)-030816	3/8/16	1145	2	S		X	X	X	X	X					
20		AL32-3(0-1)-030816	3/8/16	1153	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TAL-IRL	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/17/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20709 TO 20755 IL 102 (ISGS Site No. 2946-42)

City: Ritchie State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.257159178 (Decimal Degrees) Longitude: -88.108120237 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.257159178 Longitude: -88.108120237

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 R42-2 AND R42-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-42. SEE FIGURE 3-5 AND 3-6 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108486-1.
ALSO SEE FIGURE 4-5 AND 4-6 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-42
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R42-2(0-1)-030816	R42-3(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	R42-2	R42-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-42	2946-42	
Parameter			
Laboratory pH (s.u.)	7.3	7.64	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Acenaphthene	ND	16 J	570000
Acenaphthylene	5.4 J	13 J	---
Anthracene	10 J	40	1.20E+07
Benzo(a)anthracene	67 J	200 J	900 / 1100 / 1800
Benzo(a)pyrene	82 J	220 J	90 / 1300 / 2100
Benzo(b)fluoranthene	120 J	330 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	91 J	250 J	---
Benzo(k)fluoranthene	53 J	170 J	9000
bis(2-Ethylhexyl)phthalate	200 J	190 J	46000
Chrysene	87 J	230 J	88000
Dibenzo(a,h)anthracene	ND	32 J	90 / 200 / 420
Fluoranthene	82	290	3100000
Fluorene	ND	11 J	560000
Indeno(1,2,3-cd)pyrene	ND	190 J	900 / 900 / 1600
Naphthalene, SVOC	6.8 J	ND	1800
Phenanthrene	58	260	---
Pyrene	220 J	750 J	2300000
Total Metals (mg/kg)			
Antimony, Total	0.3 J	ND	5
Arsenic, Total	2.5	2.5	11.3 / 13
Barium, Total	41 J	33 J	1500
Beryllium, Total	0.3	0.27	22
Cadmium, Total	0.27	0.11	5.2
Calcium, Total	20000 J	23000 J	---
Chromium, Total	14 J	8.8 J	21
Cobalt, Total	3.2	3.3	20
Copper, Total	9.5	6	2900
Iron, Total	6000 J+	6700 J+	15000 / 15900
Lead, Total	58 J	44 J	107
Magnesium, Total	12000 J	14000 J	325000
Manganese, Total	280 J-	310 J-	630 / 636
Mercury, Total	0.024	0.017 J	0.89
Nickel, Total	7.3 B	6.8 B	100
Potassium, Total	410 J+	520 J+	---
Sodium, Total	360 J+	290 J+	---
Vanadium, Total	9.9	8.6	550
Zinc, Total	73 J+	36 J+	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.32 J	0.19 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.7	1	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Zinc, TCLP	0.14 J	0.074 J	5

Summary Table of ISGS Site No. 2946-42
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R42-2(0-1)-030816	R42-3(0-1)-030816	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	R42-2	R42-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-42	2946-42	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.17 J	0.11 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.035	0.025	0.1
Cobalt, SPLP	ND	ND	1
Copper, SPLP	0.026	0.017 J	0.65
Iron, SPLP	29 J-	23 J-	5
Lead, SPLP	0.04 J-	0.078 J-	0.0075
Manganese, SPLP	0.33 J+	0.55 J+	0.15
Mercury, SPLP	0.024	0.017 J	0.002
Nickel, SPLP	0.024 J	0.017 J	0.1
Zinc, SPLP	0.18 J	0.15 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108486-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/17/2016 2:36:37 PM

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

Client Sample ID: R42-2(0-1)-030816
Date Collected: 03/08/16 09:34
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-6
Matrix: Solid
Percent Solids: 83.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/10/16 01:50	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 01:50	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/10/16 01:50	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 01:50	1
Bromomethane	<6.0	*	6.0	2.2	ug/Kg	☼		03/10/16 01:50	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 01:50	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/10/16 01:50	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 01:50	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/10/16 01:50	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 01:50	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 01:50	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 01:50	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 01:50	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/10/16 01:50	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 01:50	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		03/10/16 01:50	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/10/16 01:50	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/10/16 01:50	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/10/16 01:50	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/10/16 01:50	1
2-Hexanone	<6.0		6.0	1.8	ug/Kg	☼		03/10/16 01:50	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/10/16 01:50	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/10/16 01:50	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 01:50	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 01:50	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 01:50	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/10/16 01:50	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 01:50	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/10/16 01:50	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/10/16 01:50	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/10/16 01:50	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 01:50	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/10/16 01:50	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/10/16 01:50	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/10/16 01:50	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/10/16 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/10/16 01:50*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/10/16 01:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/10/16 01:50*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/10/16 01:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1

Client Sample ID: R42-2(0-1)-030816
Date Collected: 03/08/16 09:34
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-6
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Acenaphthylene	**5.4**	**J**	37	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Anthracene	**10**	**J**	37	6.3	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Benzo[a]anthracene	**67**	*	37	5.1	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Benzo[a]pyrene	**82**	*	37	7.3	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Benzo[b]fluoranthene	**120**	*	37	8.1	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Benzo[g,h,i]perylene	**91**	*	37	12	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Benzo[k]fluoranthene	**53**	*	37	11	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Bis(2-ethylhexyl) phthalate	**200**	*	190	69	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Butyl benzyl phthalate	<190	*	190	72	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Carbazole	<190		190	94	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Chrysene	**87**	*	37	10	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Dibenz(a,h)anthracene	<37	*	37	7.3	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Fluoranthene	**82**		37	7.0	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1

Client Sample ID: R42-2(0-1)-030816
Date Collected: 03/08/16 09:34
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-6
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Naphthalene	**6.8**	**J**	37	5.8	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Phenanthrene	**58**		37	5.2	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Phenol	<190		190	84	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1
Pyrene	**220**	*	37	7.5	ug/Kg	☼	03/09/16 15:57	03/13/16 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*35 - 137*	*03/09/16 15:57*	*03/13/16 19:31*	*1*
2-Fluorobiphenyl	*89*		*25 - 119*	*03/09/16 15:57*	*03/13/16 19:31*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/09/16 15:57*	*03/13/16 19:31*	*1*
Nitrobenzene-d5	*77*		*25 - 115*	*03/09/16 15:57*	*03/13/16 19:31*	*1*
Phenol-d5	*88*		*31 - 110*	*03/09/16 15:57*	*03/13/16 19:31*	*1*
Terphenyl-d14	*192*	*X *	*36 - 134*	*03/09/16 15:57*	*03/13/16 19:31*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 19:53	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 19:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 19:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 19:53	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:53	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:53	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:53	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 19:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 19:53	1
Manganese	**0.70**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:53	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 19:53	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:53	1
Zinc	**0.14**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 13:02	1
Barium	**0.17**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 13:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 13:02	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 13:02	1
Chromium	**0.035**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:02	1
Copper	**0.026**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:02	1
Iron	**29**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 13:02	1
Lead	**0.040**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 13:02	1
Manganese	**0.33**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:02	1
Nickel	**0.024**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 13:02	1

Client Sample ID: R42-2(0-1)-030816
Date Collected: 03/08/16 09:34
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-6
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:02	1
Zinc	**0.18**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 13:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.30**	**J**	1.1	0.24	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Arsenic	**2.5**		0.57	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Barium	**41**		0.57	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Beryllium	**0.30**		0.23	0.049	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Cadmium	**0.27**		0.11	0.033	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Calcium	**20000**	**B**	11	3.7	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Chromium	**14**	**B**	2.8	0.098	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Cobalt	**3.2**		0.28	0.064	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Copper	**9.5**		0.57	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Iron	**6000**		11	4.4	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Lead	**58**		0.28	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Magnesium	**12000**	**B**	5.7	2.3	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Manganese	**280**		0.57	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Nickel	**7.3**	**B**	0.57	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Potassium	**410**		28	4.6	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Sodium	**360**	**B**	57	7.5	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Vanadium	**9.9**		0.28	0.083	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1
Zinc	**73**		1.1	0.36	mg/Kg	☼	03/10/16 15:37	03/11/16 14:39	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/14/16 16:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**24**		17	9.2	ug/Kg	☼	03/12/16 17:00	03/13/16 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.30**		0.200	0.200	SU			03/10/16 11:37	1

Client Sample ID: R42-3(0-1)-030816
Date Collected: 03/08/16 09:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-8
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/10/16 02:39	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:39	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/10/16 02:39	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:39	1
Bromomethane	<5.6	*	5.6	2.1	ug/Kg	☼		03/10/16 02:39	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 02:39	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:39	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:39	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/10/16 02:39	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:39	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:39	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:39	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:39	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/10/16 02:39	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:39	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/10/16 02:39	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:39	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 02:39	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 02:39	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 02:39	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 02:39	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/10/16 02:39	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:39	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:39	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:39	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:39	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/10/16 02:39	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 02:39	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 02:39	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 02:39	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 02:39	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:39	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 02:39	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 02:39	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 02:39	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/10/16 02:39*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/10/16 02:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*03/10/16 02:39*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/10/16 02:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1

Client Sample ID: R42-3(0-1)-030816
Date Collected: 03/08/16 09:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-8
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Acenaphthene	**16**	**J**	35	6.4	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Acenaphthylene	**13**	**J**	35	4.7	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Anthracene	**40**		35	5.9	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Benzo[a]anthracene	**200**	*****	35	4.8	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Benzo[a]pyrene	**220**	*****	35	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Benzo[b]fluoranthene	**330**	*****	35	7.7	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Benzo[g,h,i]perylene	**250**	*****	35	11	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Benzo[k]fluoranthene	**170**	*****	35	10	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Bis(2-ethylhexyl) phthalate	**190**	*****	180	65	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Carbazole	<180		180	89	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Chrysene	**230**	*****	35	9.7	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Dibenz(a,h)anthracene	**32**	**J ***	35	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Fluoranthene	**290**		35	6.6	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Fluorene	**11**	**J**	35	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1

Client Sample ID: R42-3(0-1)-030816
Date Collected: 03/08/16 09:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-8
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**190**	*	35	9.2	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Phenanthrene	**260**		35	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Phenol	<180		180	79	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1
Pyrene	**750**	*	35	7.1	ug/Kg	☼	03/09/16 15:57	03/13/16 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*35 - 137*	*03/09/16 15:57*	*03/13/16 20:19*	*1*
2-Fluorobiphenyl	*105*		*25 - 119*	*03/09/16 15:57*	*03/13/16 20:19*	*1*
2-Fluorophenol	*90*		*25 - 110*	*03/09/16 15:57*	*03/13/16 20:19*	*1*
Nitrobenzene-d5	*85*		*25 - 115*	*03/09/16 15:57*	*03/13/16 20:19*	*1*
Phenol-d5	*95*		*31 - 110*	*03/09/16 15:57*	*03/13/16 20:19*	*1*
Terphenyl-d14	*212*	*X *	*36 - 134*	*03/09/16 15:57*	*03/13/16 20:19*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 20:04	1
Barium	**0.19**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 20:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 20:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 20:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:04	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:04	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 20:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 20:04	1
Manganese	**1.0**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 20:04	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 20:04	1
Zinc	**0.074**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 13:16	1
Barium	**0.11**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 13:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 13:16	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 13:16	1
Chromium	**0.025**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:16	1
Copper	**0.017**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:16	1
Iron	**23**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 13:16	1
Lead	**0.078**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 13:16	1
Manganese	**0.55**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:16	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 13:16	1

Client Sample ID: R42-3(0-1)-030816
Date Collected: 03/08/16 09:53
Date Received: 03/08/16 16:45

Lab Sample ID: 500-108486-8
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 13:16	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 13:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Arsenic	**2.5**		0.52	0.24	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Barium	**33**		0.52	0.095	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Beryllium	**0.27**		0.21	0.045	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Cadmium	**0.11**		0.10	0.030	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Calcium	**23000**	**B**	10	3.3	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Chromium	**8.8**	**B**	2.6	0.089	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Cobalt	**3.3**		0.26	0.059	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Copper	**6.0**		0.52	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Iron	**6700**		10	4.0	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Lead	**44**		0.26	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Magnesium	**14000**	**B**	5.2	2.1	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Manganese	**310**		0.52	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Nickel	**6.8**	**B**	0.52	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Potassium	**520**		26	4.2	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Sodium	**290**	**B**	52	6.9	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Vanadium	**8.6**		0.26	0.076	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1
Zinc	**36**		1.0	0.33	mg/Kg	☼	03/10/16 15:37	03/11/16 14:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/14/16 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**	**J**	18	9.2	ug/Kg	☼	03/12/16 17:00	03/13/16 17:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.64**		0.200	0.200	SU			03/10/16 11:43	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108486-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: S. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108486

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 3.2/1.6

Client: Weston
Client Project #:
Project Name: IDot 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total metals	TCLP / SPLP metals	pH					Comments
1		CB-1(0-1)-030816	3/8/16	0835	2	S	X	X	X	X	X					
2		CB-1(0-1)-030816D	3/8/16	0835	2	S	X	X	X	X	X					
3		R41-1(0-1)-030816	3/8/16	0900	2	S	X	X	X	X	X					
4		R42-1(0-1)-030816	3/8/16	0914	2	S	X	X	X	X	X					
5		R41-2(0-1)-030816	3/8/16	0922	2	S	X	X	X	X	X					
6		R42-2(0-1)-030816	3/8/16	0934	2	S	X	X	X	X	X					
7		R41-3(0-1)-030816	3/8/16	0940	2	S	X	X	X	X	X					
8		R42-3(0-1)-030816	3/8/16	0953	2	S	X	X	X	X	X					
9		R41-4(0-1)-030816	3/8/16	1002	2	S	X	X	X	X	X					
10		R42-4(0-1)-030816	3/8/16	1013	2	S	X	X	X	X	X					

Preservative Key
1° 0 4°
4° 4°
4° 4°
1 to 4°

500-108486 COC

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	Company	Date	Time	Received By	Company	Date	Time
[illegible]	Weston	3/8/16	1540	[illegible]	TA	3/8/16	1540
[illegible]	TA	3/8/16	1645	[illegible]	TA-1+1	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lincolnshire, IL 60069
Phone: 224-364-7252
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108486
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
11		SMe-1(0-1)-030816	3/8/16	1044	2	S		X	X	X	X	X					
12		R39-1(0-1)-030816	3/8/16	1055	2	S		X	X	X	X	X					
13		R37-1(0-1)-030816	3/8/16	1102	2	S		X	X	X	X	X					
14		R37-1(0-1)-030816D	3/8/16	1102	2	S		X	X	X	X	X					
15		R36-1(0-1)-030816	3/8/16	1109	2	S		X	X	X	X	X					
16		AL32-1(0-1)-030816	3/8/16	1117	2	S		X	X	X	X	X					
17		AL32-5(0-1)-030816	3/8/16	1130	2	S		X	X	X	X	X					
18		AL32-2(0-1)-030816	3/8/16	1135	2	S		X	X	X	X	X					
19		AL32-6(0-1)-030816	3/8/16	1145	2	S		X	X	X	X	X					
20		AL32-3(0-1)-030816	3/8/16	1153	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TAL-IRL	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/17/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20000 block of IL 102 (ISGS Site No. 2946-43)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.259708071 (Decimal Degrees) Longitude: -88.110332975 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.259708071 Longitude: -88.110332975

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 VL43-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-43. SEE FIGURE 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108576-1.
ALSO SEE FIGURE 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

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

Summary Table of ISGS Site No. 2946-43
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL43-1(0-1)-030916	**Soil Reference Concentrations[A]**
Sample Date	3/9/2016	
Location ID	VL43-1	
Depth	0 - 1	
ISGS Site No.	2946-43	
Parameter		
Laboratory pH (s.u.)	8.49	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthylene	42	---
Anthracene	17 J	1.20E+07
Benzo(a)anthracene	130 J	900 / 1100 / 1800
Benzo(a)pyrene	180 J	90 / 1300 / 2100
Benzo(b)fluoranthene	280 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	130 J	---
Benzo(k)fluoranthene	110 J	9000
Chrysene	150 J	88000
Dibenzo(a,h)anthracene	17 J	90 / 200 / 420
Fluoranthene	160	3100000
Fluorene	6.4 J	560000
Indeno(1,2,3-cd)pyrene	130 J+	900 / 900 / 1600
Phenanthrene	53	---
Pyrene	400 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	1.5 J	11.3 / 13
Barium, Total	29 J	1500
Beryllium, Total	0.15 J	22
Cadmium, Total	0.12	5.2
Calcium, Total	82000 J-	---
Chromium, Total	10 J	21
Cobalt, Total	2	20
Copper, Total	6.5 J	2900
Iron, Total	4700 J	15000 / 15900
Lead, Total	46 J	107
Magnesium, Total	46000 J-	325000
Manganese, Total	210 J-	630 / 636
Mercury, Total	0.013 J	0.89
Nickel, Total	5 J	100
Potassium, Total	440 J+	---
Sodium, Total	680 J+	---
Vanadium, Total	6.1	550
Zinc, Total	36 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.19 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0027 J	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.7 J+	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Zinc, TCLP	0.11 J	5

Summary Table of ISGS Site No. 2946-43
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL43-1(0-1)-030916	**Soil Reference Concentrations[A]**
Sample Date	3/9/2016	
Location ID	VL43-1	
Depth	0 - 1	
ISGS Site No.	2946-43	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.14 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.037	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.031	0.65
Iron, SPLP	34 J+	5
Lead, SPLP	0.099	0.0075
Manganese, SPLP	0.48 B	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.023 J	0.1
Zinc, SPLP	0.19 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108576-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/22/2016 1:20:21 PM

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

Client Sample ID: VL43-1(0-1)-030916
Date Collected: 03/09/16 13:35
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-10
Matrix: Solid
Percent Solids: 92.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/12/16 15:56	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 15:56	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/12/16 15:56	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 15:56	1
Bromomethane	<5.4	*	5.4	2.0	ug/Kg	☼		03/12/16 15:56	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 15:56	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 15:56	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/12/16 15:56	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 15:56	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 15:56	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/12/16 15:56	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/12/16 15:56	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 15:56	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/12/16 15:56	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/12/16 15:56	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/12/16 15:56	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 15:56	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/12/16 15:56	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/12/16 15:56	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 15:56	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 15:56	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/12/16 15:56	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/12/16 15:56	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/12/16 15:56	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 15:56	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/12/16 15:56	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/12/16 15:56	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/12/16 15:56	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/12/16 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/12/16 15:56*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/12/16 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*		*03/12/16 15:56*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/12/16 15:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2,2'-oxybis[1-chloropropane]	<170	*	170	39	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1

Client Sample ID: VL43-1(0-1)-030916
Date Collected: 03/09/16 13:35
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-10
Matrix: Solid
Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	77	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2,4-Dinitrophenol	<680		680	600	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2-Methylnaphthalene	<34		34	6.2	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2-Methylphenol	<170		170	54	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
2-Nitrophenol	<340		340	80	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
3,3'-Dichlorobenzidine	<170	*	170	47	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
4,6-Dinitro-2-methylphenol	<680		680	270	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Acenaphthylene	**42**		34	4.5	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Anthracene	**17**	**J**	34	5.7	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Benzo[a]anthracene	**130**	**	34	4.6	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Benzo[a]pyrene	**180**	**	34	6.6	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Benzo[b]fluoranthene	**280**	**	34	7.3	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Benzo[g,h,i]perylene	**130**	**	34	11	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Benzo[k]fluoranthene	**110**	**	34	10	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Bis(2-ethylhexyl) phthalate	**120**	**J B ***	170	62	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Butyl benzyl phthalate	<170	*	170	65	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Carbazole	<170		170	85	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Chrysene	**150**	**	34	9.3	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Dibenz(a,h)anthracene	**17**	**J ***	34	6.6	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Fluoranthene	**160**		34	6.3	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Fluorene	**6.4**	**J**	34	4.8	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Hexachlorobenzene	<68		68	7.9	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Hexachlorocyclopentadiene	<680		680	200	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1

Client Sample ID: VL43-1(0-1)-030916
Date Collected: 03/09/16 13:35
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-10
Matrix: Solid
Percent Solids: 92.8

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	**130**	*	34	8.8	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Isophorone	<170		170	38	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Naphthalene	<34		34	5.2	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
N-Nitrosodi-n-propylamine	<68		68	41	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Phenanthrene	**53**		34	4.7	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Phenol	<170		170	75	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1
Pyrene	**400**	*	34	6.7	ug/Kg	☼	03/11/16 15:19	03/18/16 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*35 - 137*	*03/11/16 15:19*	*03/18/16 04:42*	*1*
2-Fluorobiphenyl	*88*		*25 - 119*	*03/11/16 15:19*	*03/18/16 04:42*	*1*
2-Fluorophenol	*93*		*25 - 110*	*03/11/16 15:19*	*03/18/16 04:42*	*1*
Nitrobenzene-d5	*74*		*25 - 115*	*03/11/16 15:19*	*03/18/16 04:42*	*1*
Phenol-d5	*94*		*31 - 110*	*03/11/16 15:19*	*03/18/16 04:42*	*1*
Terphenyl-d14	*215*	*X *	*36 - 134*	*03/11/16 15:19*	*03/18/16 04:42*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 18:12	1
Barium	**0.19**	**J**	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 18:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 18:12	1
Cadmium	**0.0027**	**J**	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 18:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:12	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:12	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 18:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 18:12	1
Manganese	**1.7**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 18:12	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:12	1
Zinc	**0.11**	**J**	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 08:40	03/19/16 04:38	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 04:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 04:38	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 04:38	1
Chromium	**0.037**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:38	1
Copper	**0.031**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:38	1
Iron	**34**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 04:38	1
Lead	**0.099**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 04:38	1
Manganese	**0.48**	**B**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:38	1
Nickel	**0.023**	**J**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 04:38	1

Client Sample ID: VL43-1(0-1)-030916
Date Collected: 03/09/16 13:35
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-10
Matrix: Solid
Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:38	1
Zinc	**0.19**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 04:38	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Arsenic	**1.5**		0.51	0.24	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Barium	**29**		2.6	0.47	mg/Kg	☼	03/16/16 09:16	03/18/16 23:48	5
Beryllium	**0.15**	**J**	0.21	0.045	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Cadmium	**0.12**		0.10	0.030	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Calcium	**82000**	**B**	51	17	mg/Kg	☼	03/16/16 09:16	03/18/16 23:48	5
Chromium	**10**		0.51	0.089	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Cobalt	**2.0**		0.26	0.058	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Copper	**6.5**		0.51	0.11	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Iron	**4700**		10	4.0	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Lead	**46**		0.26	0.13	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Magnesium	**46000**	**B**	5.1	2.1	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Manganese	**210**		2.6	0.51	mg/Kg	☼	03/16/16 09:16	03/18/16 23:48	5
Nickel	**5.0**		0.51	0.14	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Potassium	**440**		130	21	mg/Kg	☼	03/16/16 09:16	03/18/16 23:48	5
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Sodium	**680**	**B**	51	6.8	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Vanadium	**6.1**		0.26	0.075	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1
Zinc	**36**		1.0	0.33	mg/Kg	☼	03/16/16 09:16	03/18/16 00:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**13**	**J**	17	8.8	ug/Kg	☼	03/16/16 15:00	03/17/16 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.49**		0.200	0.200	SU			03/11/16 19:21	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108576-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

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

500-108576 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-964-2250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108576
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 2.9

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039 - IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. SIMPSON
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH					
1		AL28-6-(0-1)-030916	030916	1159	2	S		X	X	X	X	X					
2		AL28-6-(0-1)D-030916		1159	2	S		X	X	X	X	X					
3		AL28-7-(0-1)-030916		1207	2	S		X	X	X	X	X					
		~~AL32-9(0-1)-030916~~		~~1229~~				~~X~~	~~X~~	~~X~~	~~1~~		A.S				
4		RZ9-2-(0-1)-030916	030916	1229	2	S		X	X	X	X	X					
5		RZ9-1-(0-1)-030916		1242	2	S		X	X	X	X	X					
6		AL28-1-(0-1)-030916		1248	2	S		X	X	X	X	X					
7		VL31-5-(0-1)-030916		1255	2	S		X	X	X	X	X					
8		VL31-3-(0-1)-030916		1305	2	S		X	X	X	X	X					
9		VL43-2-(0-1)-030916		1310	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rejected Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
A. S	WESTON	030916	1555		TA	3/9/16	1555
	TA	3/9/16	1645	Sherri Scott	TA-CHI	3/9/16	1645

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-506 (1209)

3/22/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-108576

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

(optional)

Report To
Contact: S. Babu Sukumar
Company: WESTON SOLUTIONS
Address: 300 Plaza Circle, Ste 200
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Client: WESTON Solutions
Client Project #:
Project Name: IDOT 039-IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
							Parameter										
								7	7	7	7	7					
10		VL43-1-(0-1)-030916	030916	1535	2	S		X	X	X	X	X					
11		VL51-11-(0-1)-030916		1342	2	S		X	X	X	X	X					
12		VL51-10-(0-1)-030916		1352	2	S		X	X	X	X	X					
13		VL51-9-(0-1)-030916		1410	2	S		X	X	X	X	X					
14		VL51-8-(0-1)-030916		1425	2	S		X	X	X	X	X					
15		VL51-7-(0-1)-030916		1439	2	S		X	X	X	X	X					
16		VL51-6-(0-1)-030916		1451	2	S		X	X	X	X	X					
17		VL51-5-(0-4)-030916		1505	2	S		X	X	X	X	X					
18		VL51-4-(0-4)-030916		1525	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Reduced ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
1	A. S	WESTON	030916	1555		TA	3/9/16	1555
2		TA	3/9/16	1645		TA-CHI	3/9/16	1645
3								

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/22/2016

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20765 IL 102 (ISGS Site No. 2946-44)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.258389719 (Decimal Degrees) Longitude: -88.109270090 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.258389719 Longitude: -88.109270090

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 CB-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-44. SEE FIGURE 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108486-1.
ALSO SEE FIGURE 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-44
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	CB-1(0-1)-030816	CB-1(0-1)-030816D	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	CB-1	CB-1	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-44	2946-44	
Parameter			
Laboratory pH (s.u.)	7.96	7.79	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Acenaphthene	9.7 J	7 J	570000
Acenaphthylene	110	87	---
Anthracene	41	28 J	1.20E+07
Benzo(a)anthracene	190 J	250 J	900 / 1100 / 1800
Benzo(a)pyrene	320 J	340 J	90 / 1300 / 2100
Benzo(b)fluoranthene	540 J	590 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	290 J	360 J	---
Benzo(k)fluoranthene	150 J	180 J	9000
bis(2-Ethylhexyl)phthalate	120 J	160 J	46000
Chrysene	220 J	320 J	88000
Dibenzo(a,h)anthracene	47 J	79 J	90 / 200 / 420
Fluoranthene	270 J-	370	3100000
Fluorene	9.3 J	8.4 J	560000
Indeno(1,2,3-cd)pyrene	210 J	270 J	900 / 900 / 1600
Naphthalene, SVOC	5.7 J	ND	1800
Phenanthrene	130	140	---
Pyrene	560 J	970 J	2300000
Total Metals (mg/kg)			
Antimony, Total	0.44 J	0.45 J	5
Arsenic, Total	2	2.2	11.3 / 13
Barium, Total	27 J	61 J	1500
Beryllium, Total	0.27	0.26	22
Cadmium, Total	0.19	0.19	5.2
Calcium, Total	59000 J	61000 J	---
Chromium, Total	6.6 J	7.3 J	21
Cobalt, Total	2.5	2.8	20
Copper, Total	8.1	8.9	2900
Iron, Total	5500 J+	5900 J+	15000 / 15900
Lead, Total	49 J	51 J	107
Magnesium, Total	31000 J	31000 J	325000
Manganese, Total	240 J-	240 J-	630 / 636
Mercury, Total	0.015 J	0.02	0.89
Nickel, Total	6.5 B	7 B	100
Potassium, Total	420 J+	450 J+	---
Sodium, Total	230 J+	320 J+	---
Vanadium, Total	7.3	8.7	550
Zinc, Total	49 J+	50 J+	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.23 J	0.22 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.77	0.65	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Zinc, TCLP	0.26 J	0.082 J	5

Summary Table of ISGS Site No. 2946-44
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	CB-1(0-1)-030816	CB-1(0-1)-030816D	**Soil Reference Concentrations[A]**
Sample Date	3/8/2016	3/8/2016	
Location ID	CB-1	CB-1	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-44	2946-44	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.083 J	0.11 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.014 J	0.021 J	0.1
Cobalt, SPLP	ND	ND	1
Copper, SPLP	0.016 J	0.02 J	0.65
Iron, SPLP	12 J-	19 J-	5
Lead, SPLP	0.076 J-	0.086 J-	0.0075
Manganese, SPLP	0.26 J+	0.34 J+	0.15
Mercury, SPLP	0.015 J	0.02	0.002
Nickel, SPLP	ND	0.014 J	0.1
Zinc, SPLP	0.11 J	0.13 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108486-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/17/2016 2:36:37 PM

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

Client Sample ID: CB-1(0-1)-030816
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-1
Matrix: Solid
Percent Solids: 89.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 22:53	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:53	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/09/16 22:53	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:53	1
Bromomethane	<5.6	* F1	5.6	2.1	ug/Kg	☼		03/09/16 22:53	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 22:53	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:53	1
Chlorobenzene	<5.6	F1	5.6	1.3	ug/Kg	☼		03/09/16 22:53	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/09/16 22:53	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:53	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:53	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:53	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:53	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/09/16 22:53	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:53	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 22:53	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 22:53	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 22:53	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 22:53	1
Ethylbenzene	<5.6	F1	5.6	1.4	ug/Kg	☼		03/09/16 22:53	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 22:53	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 22:53	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 22:53	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:53	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:53	1
Styrene	<5.6	F1	5.6	1.3	ug/Kg	☼		03/09/16 22:53	1
1,1,2,2-Tetrachloroethane	<5.6	F1	5.6	0.89	ug/Kg	☼		03/09/16 22:53	1
Tetrachloroethene	<5.6	F1	5.6	1.2	ug/Kg	☼		03/09/16 22:53	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 22:53	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 22:53	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 22:53	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:53	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:53	1
Trichloroethene	<5.6	F1	5.6	1.5	ug/Kg	☼		03/09/16 22:53	1
Vinyl chloride	<5.6	F1	5.6	1.3	ug/Kg	☼		03/09/16 22:53	1
Xylenes, Total	<11	F1	11	2.1	ug/Kg	☼		03/09/16 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/09/16 22:53*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/09/16 22:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*03/09/16 22:53*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/09/16 22:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1

Client Sample ID: CB-1(0-1)-030816
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-1
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2,4-Dinitrophenol	<720	F1	720	630	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
3,3'-Dichlorobenzidine	<180	* F1	180	50	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
4,6-Dinitro-2-methylphenol	<720	F1	720	290	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
4-Bromophenyl phenyl ether	<180	F1	180	47	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
4-Chloroaniline	<720	F2	720	170	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Acenaphthene	**9.7**	**J**	35	6.4	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Acenaphthylene	**110**		35	4.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Anthracene	**41**		35	5.9	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Benzo[a]anthracene	**190**	*****	35	4.8	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Benzo[a]pyrene	**320**	*****	35	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Benzo[b]fluoranthene	**540**	*****	35	7.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Benzo[g,h,i]perylene	**290**	*****	35	11	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Benzo[k]fluoranthene	**150**	*****	35	10	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Bis(2-ethylhexyl) phthalate	**120**	**J * F1**	180	65	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Butyl benzyl phthalate	<180	* F1	180	68	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Carbazole	<180		180	89	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Chrysene	**220**	*****	35	9.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Dibenz(a,h)anthracene	**47**	*****	35	6.9	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Di-n-octyl phthalate	<180	F1	180	58	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Fluoranthene	**270**		35	6.6	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Fluorene	**9.3**	**J**	35	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Hexachlorocyclopentadiene	<720	F1	720	200	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Hexachloroethane	<180	F1	180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1

Client Sample ID: CB-1(0-1)-030816
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-1
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**210**	*	35	9.2	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Naphthalene	**5.7**	J	35	5.5	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
N-Nitrosodiphenylamine	<180	F1	180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Phenanthrene	**130**		35	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Phenol	<180		180	79	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1
Pyrene	**560**	* F1	35	7.1	ug/Kg	☼	03/09/16 15:57	03/13/16 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*35 - 137*	*03/09/16 15:57*	*03/13/16 17:06*	*1*
2-Fluorobiphenyl	*96*		*25 - 119*	*03/09/16 15:57*	*03/13/16 17:06*	*1*
2-Fluorophenol	*100*		*25 - 110*	*03/09/16 15:57*	*03/13/16 17:06*	*1*
Nitrobenzene-d5	*92*		*25 - 115*	*03/09/16 15:57*	*03/13/16 17:06*	*1*
Phenol-d5	*103*		*31 - 110*	*03/09/16 15:57*	*03/13/16 17:06*	*1*
Terphenyl-d14	*189*	*X	*36 - 134*	*03/09/16 15:57*	*03/13/16 17:06*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 19:03	1
Barium	**0.23**	J	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 19:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 19:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 19:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:03	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:03	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 19:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 19:03	1
Manganese	**0.77**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:03	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 19:03	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:03	1
Zinc	**0.26**	J	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 12:29	1
Barium	**0.083**	J	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 12:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 12:29	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 12:29	1
Chromium	**0.014**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:29	1
Copper	**0.016**	J	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:29	1
Iron	**12**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 12:29	1
Lead	**0.076**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 12:29	1
Manganese	**0.26**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 12:29	1

Client Sample ID: CB-1(0-1)-030816
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-1
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:29	1
Zinc	**0.11**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 12:29	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.1	0.23	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Arsenic	**2.0**		0.55	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Barium	**27**		0.55	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Beryllium	**0.27**		0.22	0.048	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Cadmium	**0.19**		0.11	0.032	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Calcium	**59000**	**B**	110	36	mg/Kg	☼	03/10/16 15:37	03/11/16 18:57	10
Chromium	**6.6**	**B**	2.8	0.095	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Cobalt	**2.5**		0.28	0.063	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Copper	**8.1**		0.55	0.12	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Iron	**5500**		11	4.3	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Lead	**49**		0.28	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Magnesium	**31000**	**B**	5.5	2.3	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Manganese	**240**		0.55	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Nickel	**6.5**	**B**	0.55	0.15	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Potassium	**420**		28	4.5	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Sodium	**230**	**B**	55	7.3	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Vanadium	**7.3**		0.28	0.081	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1
Zinc	**49**		1.1	0.35	mg/Kg	☼	03/10/16 15:37	03/11/16 14:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/14/16 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	18	9.3	ug/Kg	☼	03/12/16 17:00	03/13/16 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.96**		0.200	0.200	SU			03/11/16 11:03	1

Client Sample ID: CB-1(0-1)-030816D
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-2
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/10/16 00:09	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:09	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/10/16 00:09	1
Bromoform	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:09	1
Bromomethane	<5.6	*	5.6	2.1	ug/Kg	☼		03/10/16 00:09	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 00:09	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:09	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:09	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/10/16 00:09	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 00:09	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 00:09	1
cis-1,2-Dichloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:09	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:09	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/10/16 00:09	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:09	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/10/16 00:09	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/10/16 00:09	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 00:09	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 00:09	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 00:09	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/10/16 00:09	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/10/16 00:09	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 00:09	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:09	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:09	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:09	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.90	ug/Kg	☼		03/10/16 00:09	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/10/16 00:09	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/10/16 00:09	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/10/16 00:09	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/10/16 00:09	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:09	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/10/16 00:09	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/10/16 00:09	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/10/16 00:09	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/10/16 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/10/16 00:09*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/10/16 00:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*03/10/16 00:09*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/10/16 00:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1

Client Sample ID: CB-1(0-1)-030816D
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-2
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Acenaphthene	**7.0**	**J**	36	6.5	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Acenaphthylene	**87**		36	4.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Anthracene	**28**	**J**	36	6.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Benzo[a]anthracene	**250**	*****	36	4.8	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Benzo[a]pyrene	**340**	*****	36	7.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Benzo[b]fluoranthene	**590**	*****	36	7.8	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Benzo[g,h,i]perylene	**360**	*****	36	12	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Benzo[k]fluoranthene	**180**	*****	36	11	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Bis(2-ethylhexyl) phthalate	**160**	**J ***	180	66	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Carbazole	<180		180	90	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Chrysene	**320**	*****	36	9.8	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Dibenz(a,h)anthracene	**79**	*****	36	7.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Fluoranthene	**370**		36	6.7	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Fluorene	**8.4**	**J**	36	5.1	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Hexachlorobenzene	<73		73	8.3	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1

Client Sample ID: CB-1(0-1)-030816D
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-2
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**270**	*	36	9.3	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Phenanthrene	**140**		36	5.0	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Phenol	<180		180	80	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1
Pyrene	**970**	*	36	7.1	ug/Kg	☼	03/09/16 15:57	03/13/16 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*35 - 137*	*03/09/16 15:57*	*03/13/16 17:30*	*1*
2-Fluorobiphenyl	*99*		*25 - 119*	*03/09/16 15:57*	*03/13/16 17:30*	*1*
2-Fluorophenol	*91*		*25 - 110*	*03/09/16 15:57*	*03/13/16 17:30*	*1*
Nitrobenzene-d5	*88*		*25 - 115*	*03/09/16 15:57*	*03/13/16 17:30*	*1*
Phenol-d5	*100*		*31 - 110*	*03/09/16 15:57*	*03/13/16 17:30*	*1*
Terphenyl-d14	*201*	*X *	*36 - 134*	*03/09/16 15:57*	*03/13/16 17:30*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:34	03/14/16 19:24	1
Barium	**0.22**	**J**	0.50	0.050	mg/L		03/12/16 12:34	03/14/16 19:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:34	03/14/16 19:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:34	03/14/16 19:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:24	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:24	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:34	03/14/16 19:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:34	03/14/16 19:24	1
Manganese	**0.65**		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:34	03/14/16 19:24	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:34	03/14/16 19:24	1
Zinc	**0.082**	**J**	0.50	0.020	mg/L		03/12/16 12:34	03/14/16 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/13/16 15:00	03/14/16 12:35	1
Barium	**0.11**	**J**	0.50	0.050	mg/L		03/13/16 15:00	03/14/16 12:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/13/16 15:00	03/14/16 12:35	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/13/16 15:00	03/14/16 12:35	1
Chromium	**0.021**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:35	1
Copper	**0.020**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:35	1
Iron	**19**		0.40	0.20	mg/L		03/13/16 15:00	03/14/16 12:35	1
Lead	**0.086**		0.0075	0.0075	mg/L		03/13/16 15:00	03/14/16 12:35	1
Manganese	**0.34**		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:35	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/13/16 15:00	03/14/16 12:35	1

Client Sample ID: CB-1(0-1)-030816D
Date Collected: 03/08/16 08:35
Date Received: 03/08/16 15:41

Lab Sample ID: 500-108486-2
Matrix: Solid
Percent Solids: 88.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/13/16 15:00	03/14/16 12:35	1
Zinc	**0.13**	**J**	0.50	0.020	mg/L		03/13/16 15:00	03/14/16 12:35	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.45**	**J**	1.0	0.22	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Arsenic	**2.2**		0.52	0.24	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Barium	**61**		0.52	0.095	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Beryllium	**0.26**		0.21	0.045	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Cadmium	**0.19**		0.10	0.030	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Calcium	**61000**	**B**	100	33	mg/Kg	☼	03/10/16 15:37	03/11/16 19:01	10
Chromium	**7.3**	**B**	2.6	0.089	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Cobalt	**2.8**		0.26	0.059	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Copper	**8.9**		0.52	0.11	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Iron	**5900**		10	4.0	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Lead	**51**		0.26	0.13	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Magnesium	**31000**	**B**	5.2	2.1	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Manganese	**240**		0.52	0.10	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Nickel	**7.0**	**B**	0.52	0.14	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Potassium	**450**		26	4.2	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Sodium	**320**	**B**	52	6.8	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Vanadium	**8.7**		0.26	0.076	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1
Zinc	**50**		1.0	0.33	mg/Kg	☼	03/10/16 15:37	03/11/16 14:10	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/12/16 16:00	03/14/16 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 12:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**20**		18	9.3	ug/Kg	☼	03/12/16 17:00	03/13/16 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.79**		0.200	0.200	SU			03/10/16 11:27	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F3	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108486-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

Report To
Contact: S. Babasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108486

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 3.2/1.6

Client: Weston
Client Project #:
Project Name: IDot 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

Preservative
Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total metals	TCLP / SPLP metals	pH					Comments
1		CB-1(0-1)-030816	3/8/16	0835	2	S	X	X	X	X	X					
2		CB-1(0-1)-030816D	3/8/16	0835	2	S	X	X	X	X	X					
3		R41-1(0-1)-030816	3/8/16	0900	2	S	X	X	X	X	X					
4		R42-1(0-1)-030816	3/8/16	0914	2	S	X	X	X	X	X					
5		R41-2(0-1)-030816	3/8/16	0922	2	S	X	X	X	X	X					
6		R42-2(0-1)-030816	3/8/16	0934	2	S	X	X	X	X	X					
7		R41-3(0-1)-030816	3/8/16	0940	2	S	X	X	X	X	X					
8		R42-3(0-1)-030816	3/8/16	0953	2	S	X	X	X	X	X					
9		R41-4(0-1)-030816	3/8/16	1002	2	S	X	X	X	X	X					
10		R42-4(0-1)-030816	3/8/16	1013	2	S	X	X	X	X	X					

Preservative Key
1° 0 4°
4° 4°
4° 4°
1 to 4°

500-108486 COC

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	Company	Date	Time	Received By	Company	Date	Time
[illegible]	Weston	3/8/16	1540	[illegible]	TA	3/8/16	1540
[illegible]	TA	3/8/16	1645	[illegible]	TA-1+1	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Lincolnshire, IL 60069
Phone: 224-364-7252
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108486
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.2, 1.6

Client: Weston
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuchasz
Lab PM:

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
11		SMe-1(0-1)-030816	3/8/16	1044	2	S		X	X	X	X	X					
12		R39-1(0-1)-030816	3/8/16	1055	2	S		X	X	X	X	X					
13		R37-1(0-1)-030816	3/8/16	1102	2	S		X	X	X	X	X					
14		R37-1(0-1)-030816D	3/8/16	1102	2	S		X	X	X	X	X					
15		R36-1(0-1)-030816	3/8/16	1109	2	S		X	X	X	X	X					
16		AL32-1(0-1)-030816	3/8/16	1117	2	S		X	X	X	X	X					
17		AL32-5(0-1)-030816	3/8/16	1130	2	S		X	X	X	X	X					
18		AL32-2(0-1)-030816	3/8/16	1135	2	S		X	X	X	X	X					
19		AL32-6(0-1)-030816	3/8/16	1145	2	S		X	X	X	X	X					
20		AL32-3(0-1)-030816	3/8/16	1153	2	S		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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/8/16	1540	[signature]	TA	3/8/16	1540
[signature]	TA	3/8/16	1645	[signature]	TAL-IRL	03/08/16	16:45

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/17/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20775 IL 102 (ISGS Site No. 2946-45)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.258696603 (Decimal Degrees) Longitude: -88.109545932 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.258696603 Longitude: -88.109545932

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 R45-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-45. SEE FIGURE 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108439-1.
ALSO SEE FIGURE 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-45
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R45-1(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	
Location ID	R45-1	
Depth	0 - 1	
ISGS Site No.	2946-45	
Parameter		
Laboratory pH (s.u.)	8.28	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthylene	13 J	---
Anthracene	6.5 J	1.20E+07
Benzo(a)anthracene	31 J	900 / 1100 / 1800
Benzo(a)pyrene	55 J	90 / 1300 / 2100
Benzo(b)fluoranthene	78 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	86 J	---
Benzo(k)fluoranthene	35 J	9000
Chrysene	47 J	88000
Fluoranthene	35 J	3100000
Indeno(1,2,3-cd)pyrene	69 J	900 / 900 / 1600
Phenanthrene	21 J	---
Pyrene	120 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	2.5	11.3 / 13
Barium, Total	35 J	1500
Beryllium, Total	0.28	22
Cadmium, Total	0.15	5.2
Calcium, Total	45000 J	---
Chromium, Total	ND	21
Cobalt, Total	3.7 J	20
Copper, Total	7.2 J	2900
Iron, Total	5400 J+	15000 / 15900
Lead, Total	33 J	107
Magnesium, Total	24000 J	325000
Manganese, Total	300 J	630 / 636
Mercury, Total	0.024	0.89
Nickel, Total	8.2 B	100
Potassium, Total	600 J	---
Selenium, Total	0.41 J	1.3
Sodium, Total	770 J	---
Vanadium, Total	9.1 J	550
Zinc, Total	48 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.26 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.6	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.16 J	5

Summary Table of ISGS Site No. 2946-45
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R45-1(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	
Location ID	R45-1	
Depth	0 - 1	
ISGS Site No.	2946-45	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.013 J	0.05
Barium, SPLP	0.26 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.054	0.1
Cobalt, SPLP	0.013 J	1
Copper, SPLP	0.042	0.65
Iron, SPLP	59 J+	5
Lead, SPLP	0.14	0.0075
Manganese, SPLP	0.94	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.038	0.1
Selenium, SPLP	ND	0.05
Zinc, SPLP	0.82 J-	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108439-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 4:32:40 PM

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Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Client Sample ID: R45-1(0-1)-030716
Date Collected: 03/07/16 15:25
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-8
Matrix: Solid
Percent Solids: 91.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 06:27	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 06:27	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/09/16 06:27	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 06:27	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 06:27	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 06:27	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 06:27	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 06:27	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/09/16 06:27	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 06:27	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 06:27	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 06:27	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 06:27	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/09/16 06:27	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 06:27	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/09/16 06:27	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 06:27	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 06:27	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/09/16 06:27	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 06:27	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/09/16 06:27	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/09/16 06:27	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 06:27	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 06:27	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 06:27	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 06:27	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/09/16 06:27	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 06:27	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/09/16 06:27	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 06:27	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/09/16 06:27	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 06:27	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 06:27	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/09/16 06:27	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 06:27	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/09/16 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 06:27*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/09/16 06:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*03/09/16 06:27*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/09/16 06:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1

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Lab Sample ID: 500-108439-8
Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2,4-Dimethylphenol	<360	*	360	140	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Acenaphthene	<36		36	6.4	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Acenaphthylene	**13**	**J**	36	4.7	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Anthracene	**6.5**	**J**	36	6.0	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Benzo[a]anthracene	**31**	**J ***	36	4.8	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Benzo[a]pyrene	**55**	**	36	6.9	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Benzo[b]fluoranthene	**78**	**	36	7.7	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Benzo[g,h,i]perylene	**86**	**	36	12	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Benzo[k]fluoranthene	**35**	**J ***	36	11	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Carbazole	<180		180	90	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Chrysene	**47**	**	36	9.8	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Dibenz(a,h)anthracene	<36	*	36	6.9	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Fluoranthene	**35**	**J**	36	6.7	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Fluorene	<36		36	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1

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Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**69**	*	36	9.3	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Phenanthrene	**21**	J	36	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Phenol	<180		180	80	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1
Pyrene	**120**	*	36	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*35 - 137*	*03/10/16 07:07*	*03/11/16 19:13*	*1*
2-Fluorobiphenyl	*88*		*25 - 119*	*03/10/16 07:07*	*03/11/16 19:13*	*1*
2-Fluorophenol	*90*		*25 - 110*	*03/10/16 07:07*	*03/11/16 19:13*	*1*
Nitrobenzene-d5	*84*		*25 - 115*	*03/10/16 07:07*	*03/11/16 19:13*	*1*
Phenol-d5	*93*		*31 - 110*	*03/10/16 07:07*	*03/11/16 19:13*	*1*
Terphenyl-d14	*210*	*X *	*36 - 134*	*03/10/16 07:07*	*03/11/16 19:13*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:23	03/13/16 00:06	1
Barium	**0.26**	J	0.50	0.050	mg/L		03/12/16 12:23	03/13/16 00:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/13/16 00:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/13/16 00:06	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:06	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:06	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:06	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/13/16 00:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/13/16 00:06	1
Manganese	**1.6**		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:06	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:06	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/13/16 00:06	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:06	1
Zinc	**0.16**	J B	0.50	0.020	mg/L		03/12/16 12:23	03/13/16 00:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**	J	0.050	0.010	mg/L		03/12/16 12:29	03/13/16 17:38	1
Barium	**0.26**	J	0.50	0.050	mg/L		03/12/16 12:29	03/13/16 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 17:38	1
Chromium	**0.054**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:38	1
Cobalt	**0.013**	J	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:38	1
Copper	**0.042**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:38	1
Iron	**59**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 17:38	1
Lead	**0.14**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 17:38	1
Manganese	**0.94**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:38	1
Nickel	**0.038**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:38	1
Zinc	**0.82**	**F1 B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 17:38	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.93		0.93	0.19	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Arsenic	**2.5**		0.46	0.21	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Barium	**35**		0.46	0.085	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Beryllium	**0.28**		0.19	0.040	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Cadmium	**0.15**		0.093	0.027	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Calcium	**45000**	**B**	93	30	mg/Kg	☼	03/10/16 10:00	03/10/16 20:47	10
Chromium	**6.9**	**B**	2.3	0.080	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Cobalt	**3.7**		0.23	0.052	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Copper	**7.2**		0.46	0.10	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Iron	**5400**		11	4.2	mg/Kg	☼	03/15/16 15:25	03/16/16 12:02	1
Lead	**33**		0.23	0.12	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Magnesium	**24000**	**B**	4.6	1.9	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Manganese	**300**	**B**	0.46	0.092	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Nickel	**8.2**	**B**	2.3	0.13	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Potassium	**600**		23	3.8	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Selenium	**0.41**	**J**	0.46	0.23	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Sodium	**770**		46	6.1	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Vanadium	**9.1**		0.23	0.068	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1
Zinc	**48**		0.93	0.29	mg/Kg	☼	03/10/16 10:00	03/10/16 17:09	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**24**		17	9.2	ug/Kg	☼	03/10/16 19:30	03/13/16 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.28**		0.200	0.200	SU			03/09/16 21:32	1

Qualifiers

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

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL (
Phone: 708.534.5200 Fax: 708.5

500-108439 COC

(optional)

Report To
Contact: S. Babasubkumar
Company: Weston Solutions
Address: 300 plaza cir, ste 201
Address: Middlesex, JC 08060
Phone: 224-806-4-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108439

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 3.1/2.4

Client: Weston
Client Project #:
Project Name: FDOT 034
Project Location/State: Wilmington, NC
Lab Project #:
Sampler: A. Tuckaset
Lab PM: Dick Weight

Preservative
Parameter

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP metals	PAH	Comments
1		RS2-2(0-1)-030716	3/7/16	1420	2	S	X	X	X	X	X	
2		RS2-2(0-1)-030716D	3/7/16	1420	2	S	X	X	X	X	X	
3		RS2-3(0-1)-030716	3/7/16	1435	2	S	X	X	X	X	X	
4		AL48-4(0-1)-030716	3/7/16	1450	2	S	X	X	X	X	X	
5		AL47-1(0-1)-030716	3/7/16	1500	2	S	X	X	X	X	X	
6		RUM-1(0-1)-030716	3/7/16	1510	2	S	X	X	X	X	X	
7		RUM-2(0-1)-030716	3/7/16	1516	2	S	X	X	X	X	X	
8		RS5-1(0-1)-030716	3/7/16	1525	2	S	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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1558		TA	3/7/16	1558
	TA	3/7/16	1635		TA-CHE	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20785 IL 102 (ISGS Site No. 2946-46)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.259417163 (Decimal Degrees) Longitude: -88.110198119 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.259417163 Longitude: -88.110198119

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 RUM-1 AND RUM-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-46. SEE FIGURE 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108439-1.
ALSO SEE FIGURE 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

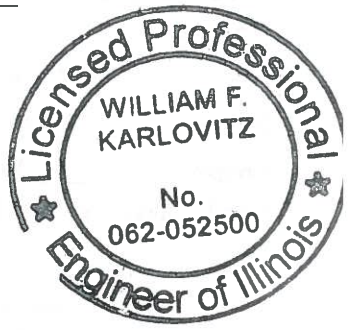
City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:



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

Summary Table of ISGS Site No. 2946-46
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	RUM-1(0-1)-030716	RUM-2(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	3/7/2016	
Location ID	RUM-1	RUM-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-46	2946-46	
Parameter			
Laboratory pH (s.u.)	7.51	7.8	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Acenaphthene	ND	9.5 J	570000
Acenaphthylene	12 J	150	---
Anthracene	14 J	67	1.20E+07
Benzo(a)anthracene	88 J	270 J	900 / 1100 / 1800
Benzo(a)pyrene	110 J	410 J	90 / 1300 / 2100
Benzo(b)fluoranthene	200 J	630 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	99 J	440 J	---
Benzo(k)fluoranthene	91 J	230 J	9000
Chrysene	110 J	310 J	88000
Dibenzo(a,h)anthracene	ND	63 J	90 / 200 / 420
Fluoranthene	120	360	3100000
Fluorene	ND	13 J	560000
Indeno(1,2,3-cd)pyrene	87 J	360 J	900 / 900 / 1600
Phenanthrene	29 J	240	---
Pyrene	280 J	1100 J	2300000
Total Metals (mg/kg)			
Arsenic, Total	2.3	2.3	11.3 / 13
Barium, Total	36 J	50 J	1500
Beryllium, Total	0.23	0.26	22
Cadmium, Total	0.11	0.14	5.2
Calcium, Total	18000 J	31000 J	---
Chromium, Total	ND	ND	21
Cobalt, Total	3.5 J	3.5 J	20
Copper, Total	7.3 J	7.5 J	2900
Iron, Total	7800 J+	7400 J+	15000 / 15900
Lead, Total	26 J	45 J	107
Magnesium, Total	11000 J	19000 J	325000
Manganese, Total	280 J	240 J	630 / 636
Mercury, Total	0.015 J	0.019	0.89
Nickel, Total	8 B	9 B	100
Potassium, Total	430 J	500 J	---
Sodium, Total	420 J	420 J	---
Vanadium, Total	10 J	11 J	550
Zinc, Total	41 J	42 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.32 J	0.23 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1	0.96	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Zinc, TCLP	1.9 B	ND	5

Summary Table of ISGS Site No. 2946-46
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	RUM-1(0-1)-030716	RUM-2(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	3/7/2016	
Location ID	RUM-1	RUM-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-46	2946-46	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.01 J	ND	0.05
Barium, SPLP	0.18 J	0.14 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.036	0.026	0.1
Cobalt, SPLP	ND	ND	1
Copper, SPLP	0.025	0.022 J	0.65
Iron, SPLP	34 J+	24 J+	5
Lead, SPLP	0.055	0.11	0.0075
Manganese, SPLP	0.55	0.48	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.025	0.02 J	0.1
Zinc, SPLP	1.6 J-	ND	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108439-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 4:32:40 PM

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

Client Sample ID: RUM-1(0-1)-030716

Date Collected: 03/07/16 15:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-6

Matrix: Solid
Percent Solids: 87.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/09/16 05:35	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 05:35	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/09/16 05:35	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 05:35	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 05:35	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 05:35	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 05:35	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 05:35	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/09/16 05:35	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 05:35	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 05:35	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 05:35	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 05:35	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/09/16 05:35	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 05:35	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/09/16 05:35	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 05:35	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 05:35	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 05:35	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 05:35	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/09/16 05:35	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/09/16 05:35	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 05:35	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 05:35	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 05:35	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 05:35	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/09/16 05:35	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 05:35	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 05:35	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 05:35	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 05:35	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 05:35	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 05:35	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 05:35	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 05:35	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 05:35*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/09/16 05:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*03/09/16 05:35*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 05:35*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1

Client Sample ID: RUM-1(0-1)-030716
Date Collected: 03/07/16 15:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-6
Matrix: Solid
Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2,4-Dimethylphenol	<370	*	370	140	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Acenaphthylene	**12**	**J**	37	4.9	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Anthracene	**14**	**J**	37	6.2	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Benzo[a]anthracene	**88**	*	37	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Benzo[a]pyrene	**110**	*	37	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Benzo[b]fluoranthene	**200**	*	37	8.0	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Benzo[g,h,i]perylene	**99**	*	37	12	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Benzo[k]fluoranthene	**91**	*	37	11	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Bis(2-ethylhexyl) phthalate	<190	*	190	67	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Chrysene	**110**	*	37	10	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Dibenz(a,h)anthracene	<37	*	37	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Fluoranthene	**120**		37	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1

Client Sample ID: RUM-1(0-1)-030716
Date Collected: 03/07/16 15:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-6
Matrix: Solid
Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**87**	*	37	9.6	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Phenanthrene	**29**	J	37	5.1	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1
Pyrene	**280**	*	37	7.3	ug/Kg	☼	03/10/16 07:07	03/11/16 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*43*		*35 - 137*	*03/10/16 07:07*	*03/11/16 18:22*	*1*
2-Fluorobiphenyl	*78*		*25 - 119*	*03/10/16 07:07*	*03/11/16 18:22*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/10/16 07:07*	*03/11/16 18:22*	*1*
Nitrobenzene-d5	*71*		*25 - 115*	*03/10/16 07:07*	*03/11/16 18:22*	*1*
Phenol-d5	*79*		*31 - 110*	*03/10/16 07:07*	*03/11/16 18:22*	*1*
Terphenyl-d14	*183*	*X *	*36 - 134*	*03/10/16 07:07*	*03/11/16 18:22*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:23	03/12/16 23:56	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/12/16 12:23	03/12/16 23:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/12/16 23:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/12/16 23:56	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:56	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:56	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:56	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/12/16 23:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/12/16 23:56	1
Manganese	**1.0**		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:56	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:56	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/12/16 23:56	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:56	1
Zinc	**1.9**	B	0.50	0.020	mg/L		03/12/16 12:23	03/12/16 23:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**	J	0.050	0.010	mg/L		03/12/16 12:29	03/13/16 17:24	1
Barium	**0.18**	J	0.50	0.050	mg/L		03/12/16 12:29	03/13/16 17:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 17:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 17:24	1
Chromium	**0.036**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:24	1
Copper	**0.025**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:24	1
Iron	**34**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 17:24	1
Lead	**0.055**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 17:24	1
Manganese	**0.55**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:24	1
Nickel	**0.025**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 17:24	1

Client Sample ID: RUM-1(0-1)-030716

Date Collected: 03/07/16 15:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-6

Matrix: Solid
Percent Solids: 87.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:24	1
Zinc	**1.6**	**B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 17:24	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Arsenic	**2.3**		0.53	0.25	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Barium	**36**		0.53	0.097	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Beryllium	**0.23**		0.21	0.046	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Cadmium	**0.11**		0.11	0.031	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Calcium	**18000**	**B**	11	3.4	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Chromium	**8.7**	**B**	2.7	0.091	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Cobalt	**3.5**		0.27	0.060	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Copper	**7.3**		0.53	0.12	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Iron	**7800**		11	4.1	mg/Kg	☼	03/15/16 15:25	03/16/16 11:37	1
Lead	**26**		0.27	0.13	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Magnesium	**11000**	**B**	5.3	2.2	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Manganese	**280**	**B**	0.53	0.11	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Nickel	**8.0**	**B**	2.7	0.14	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Potassium	**430**		27	4.3	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Selenium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Silver	<0.27		0.27	0.062	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Sodium	**420**		53	7.0	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Vanadium	**10**		0.27	0.078	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1
Zinc	**41**		1.1	0.34	mg/Kg	☼	03/10/16 10:00	03/10/16 16:59	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	17	9.1	ug/Kg	☼	03/10/16 19:30	03/13/16 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.51**		0.200	0.200	SU			03/09/16 21:24	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Client Sample ID: RUM-2(0-1)-030716
Date Collected: 03/07/16 15:16
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-7
Matrix: Solid
Percent Solids: 92.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/09/16 06:01	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/09/16 06:01	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/09/16 06:01	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/09/16 06:01	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/09/16 06:01	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/09/16 06:01	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/09/16 06:01	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/09/16 06:01	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/09/16 06:01	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/09/16 06:01	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/09/16 06:01	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/09/16 06:01	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/09/16 06:01	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/09/16 06:01	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/09/16 06:01	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/09/16 06:01	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/09/16 06:01	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/09/16 06:01	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/09/16 06:01	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/09/16 06:01	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/09/16 06:01	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/09/16 06:01	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/09/16 06:01	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/09/16 06:01	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/09/16 06:01	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/09/16 06:01	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/09/16 06:01	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/09/16 06:01	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/09/16 06:01	1
trans-1,2-Dichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/09/16 06:01	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/09/16 06:01	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/09/16 06:01	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/09/16 06:01	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/09/16 06:01	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/09/16 06:01	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/09/16 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 06:01*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/09/16 06:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/09/16 06:01*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 06:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1

Client Sample ID: RUM-2(0-1)-030716
Date Collected: 03/07/16 15:16
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-7
Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2,4-Dimethylphenol	<360	*	360	140	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Acenaphthene	**9.5**	**J**	36	6.4	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Acenaphthylene	**150**		36	4.7	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Anthracene	**67**		36	6.0	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Benzo[a]anthracene	**270**	*	36	4.8	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Benzo[a]pyrene	**410**	*	36	6.9	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Benzo[b]fluoranthene	**630**	*	36	7.7	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Benzo[g,h,i]perylene	**440**	*	36	12	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Benzo[k]fluoranthene	**230**	*	36	11	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Carbazole	<180		180	89	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Chrysene	**310**	*	36	9.8	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Dibenz(a,h)anthracene	**63**	*	36	6.9	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Fluoranthene	**360**		36	6.6	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Fluorene	**13**	**J**	36	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1

Client Sample ID: RUM-2(0-1)-030716
Date Collected: 03/07/16 15:16
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-7
Matrix: Solid
Percent Solids: 92.4

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	**360**	*	36	9.3	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Nitrobenzene	<36		36	8.9	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Phenanthrene	**240**		36	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Phenol	<180		180	79	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1
Pyrene	**1100**	*	36	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*35 - 137*	*03/10/16 07:07*	*03/11/16 18:47*	*1*
2-Fluorobiphenyl	*81*		*25 - 119*	*03/10/16 07:07*	*03/11/16 18:47*	*1*
2-Fluorophenol	*84*		*25 - 110*	*03/10/16 07:07*	*03/11/16 18:47*	*1*
Nitrobenzene-d5	*78*		*25 - 115*	*03/10/16 07:07*	*03/11/16 18:47*	*1*
Phenol-d5	*87*		*31 - 110*	*03/10/16 07:07*	*03/11/16 18:47*	*1*
Terphenyl-d14	*186*	*X *	*36 - 134*	*03/10/16 07:07*	*03/11/16 18:47*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:23	03/13/16 00:01	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		03/12/16 12:23	03/13/16 00:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/13/16 00:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/13/16 00:01	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:01	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:01	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:01	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/13/16 00:01	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/13/16 00:01	1
Manganese	**0.96**		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:01	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/13/16 00:01	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/13/16 00:01	1
Zinc	**0.10**	**J B**	0.50	0.020	mg/L		03/12/16 12:23	03/13/16 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:29	03/13/16 17:31	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		03/12/16 12:29	03/13/16 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 17:31	1
Chromium	**0.026**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:31	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:31	1
Copper	**0.022**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:31	1
Iron	**24**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 17:31	1
Lead	**0.11**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 17:31	1
Manganese	**0.48**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:31	1
Nickel	**0.020**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 17:31	1

Client Sample ID: RUM-2(0-1)-030716
Date Collected: 03/07/16 15:16
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-7
Matrix: Solid
Percent Solids: 92.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:31	1
Zinc	**0.33**	**J B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 17:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Arsenic	**2.3**		0.54	0.25	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Barium	**50**		0.54	0.098	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Beryllium	**0.26**		0.22	0.047	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Cadmium	**0.14**		0.11	0.031	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Calcium	**31000**	**B**	11	3.5	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Chromium	**7.5**	**B**	2.7	0.092	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Cobalt	**3.5**		0.27	0.061	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Copper	**7.5**		0.54	0.12	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Iron	**7400**		10	4.0	mg/Kg	☼	03/15/16 15:25	03/16/16 11:57	1
Lead	**45**		0.27	0.13	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Magnesium	**19000**	**B**	5.4	2.2	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Manganese	**240**	**B**	0.54	0.11	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Nickel	**9.0**	**B**	2.7	0.15	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Potassium	**500**		27	4.4	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Sodium	**420**		54	7.1	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Vanadium	**11**		0.27	0.078	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1
Zinc	**42**		1.1	0.34	mg/Kg	☼	03/10/16 10:00	03/10/16 17:04	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		16	8.5	ug/Kg	☼	03/10/16 19:30	03/13/16 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.80**		0.200	0.200	SU			03/09/16 21:28	1

Qualifiers

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

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL (
Phone: 708.534.5200 Fax: 708.5

500-108439 COC

(optional)

Report To
Contact: S. Babasubkumar
Company: Weston Solutions
Address: 300 plaza cir, ste 201
Address: Middlesex, JC 08060
Phone: 224-806-4-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108439

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 3.1/2.4

Client: Weston
Client Project #:
Project Name: FDOT 034
Project Location/State: Wilmington, NC
Lab Project #:
Sampler: A. Tuckaset
Lab PM: Dick Weight

Preservative
Parameter

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP metals	PAH	Comments
1		RS2-2(0-1)-030716	3/7/16	1420	2	S	X	X	X	X	X	
2		RS2-2(0-1)-030716D	3/7/16	1420	2	S	X	X	X	X	X	
3		RS2-3(0-1)-030716	3/7/16	1435	2	S	X	X	X	X	X	
4		AL48-4(0-1)-030716	3/7/16	1450	2	S	X	X	X	X	X	
5		AL47-1(0-1)-030716	3/7/16	1500	2	S	X	X	X	X	X	
6		RUM-1(0-1)-030716	3/7/16	1510	2	S	X	X	X	X	X	
7		RUM-2(0-1)-030716	3/7/16	1516	2	S	X	X	X	X	X	
8		RS5-1(0-1)-030716	3/7/16	1525	2	S	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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1558		TA	3/7/16	1558
	TA	3/7/16	1635		TA-CHE	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20000 block of IL 102 (ISGS Site No. 2946-47)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.259866950 (Decimal Degrees) Longitude: -88.110600640 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.259866950 Longitude: -88.110600640

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 AL47-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-47. SEE FIGURE 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108439-1.
ALSO SEE FIGURE 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

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

Summary Table of ISGS Site No. 2946-47
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL47-1(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	
Location ID	AL47-1	
Depth	0 - 1	
ISGS Site No.	2946-47	
Parameter		
Laboratory pH (s.u.)	783	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	9.4 J	900 / 1100 / 1800
Chrysene	16 J	88000
Fluoranthene	13 J	3100000
Phenanthrene	8.3 J	---
Pyrene	37 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	2.4	11.3 / 13
Barium, Total	36 J	1500
Beryllium, Total	0.23	22
Cadmium, Total	0.056 J	5.2
Calcium, Total	20000 J	---
Chromium, Total	ND	21
Cobalt, Total	3.2 J	20
Copper, Total	4.8 J	2900
Iron, Total	5700 J+	15000 / 15900
Lead, Total	12 J	107
Magnesium, Total	12000 J	325000
Manganese, Total	270 J	630 / 636
Mercury, Total	0.018	0.89
Nickel, Total	6.9 B	100
Potassium, Total	520 J	---
Sodium, Total	240 J	---
Vanadium, Total	11 J	550
Zinc, Total	27 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.32 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.7	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Zinc, TCLP	1.4 B	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.019 J	0.05
Barium, SPLP	0.21 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.046	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.028	0.65
Iron, SPLP	43 J+	5
Lead, SPLP	0.025	0.0075
Manganese, SPLP	0.58	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.033	0.1
Zinc, SPLP	0.68 J-	5

Summary Table of ISGS Site No. 2946-47
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108439-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 4:32:40 PM

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

Client Sample ID: AL47-1(0-1)-030716
Date Collected: 03/07/16 15:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-5
Matrix: Solid
Percent Solids: 90.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 05:09	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 05:09	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/09/16 05:09	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 05:09	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 05:09	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 05:09	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/09/16 05:09	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 05:09	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/09/16 05:09	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 05:09	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 05:09	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 05:09	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 05:09	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/09/16 05:09	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 05:09	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/09/16 05:09	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 05:09	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 05:09	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/09/16 05:09	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 05:09	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/09/16 05:09	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/09/16 05:09	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/09/16 05:09	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 05:09	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 05:09	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 05:09	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/09/16 05:09	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 05:09	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/09/16 05:09	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/09/16 05:09	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/09/16 05:09	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 05:09	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/09/16 05:09	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/09/16 05:09	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/09/16 05:09	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/09/16 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 05:09*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/09/16 05:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/09/16 05:09*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 05:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1

Client Sample ID: AL47-1(0-1)-030716
Date Collected: 03/07/16 15:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-5
Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2,4-Dimethylphenol	<350	*	350	130	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Anthracene	<35		35	5.9	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Benzo[a]anthracene	**9.4**	**J ***	35	4.8	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Benzo[a]pyrene	<35	*	35	6.9	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Benzo[b]fluoranthene	<35	*	35	7.7	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Benzo[k]fluoranthene	<35	*	35	10	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Bis(2-ethylhexyl) phthalate	<180	*	180	65	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Carbazole	<180		180	89	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Chrysene	**16**	**J ***	35	9.7	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Dibenz(a,h)anthracene	<35	*	35	6.9	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Fluoranthene	**13**	**J**	35	6.6	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1

Client Sample ID: AL47-1(0-1)-030716
Date Collected: 03/07/16 15:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-5
Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35	*	35	9.2	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Phenanthrene	**8.3**	**J**	35	4.9	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Phenol	<180		180	79	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1
Pyrene	**37**	*****	35	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*40*		*35 - 137*	*03/10/16 07:07*	*03/11/16 17:56*	*1*
2-Fluorobiphenyl	*81*		*25 - 119*	*03/10/16 07:07*	*03/11/16 17:56*	*1*
2-Fluorophenol	*91*		*25 - 110*	*03/10/16 07:07*	*03/11/16 17:56*	*1*
Nitrobenzene-d5	*77*		*25 - 115*	*03/10/16 07:07*	*03/11/16 17:56*	*1*
Phenol-d5	*86*		*31 - 110*	*03/10/16 07:07*	*03/11/16 17:56*	*1*
Terphenyl-d14	*188*	*X **	*36 - 134*	*03/10/16 07:07*	*03/11/16 17:56*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:23	03/12/16 23:51	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		03/12/16 12:23	03/12/16 23:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/12/16 23:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/12/16 23:51	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:51	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:51	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:51	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/12/16 23:51	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/12/16 23:51	1
Manganese	**1.7**		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:51	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/12/16 23:51	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:51	1
Zinc	**1.4**	**B**	0.50	0.020	mg/L		03/12/16 12:23	03/12/16 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.019**	**J**	0.050	0.010	mg/L		03/12/16 12:29	03/13/16 17:17	1
Barium	**0.21**	**J**	0.50	0.050	mg/L		03/12/16 12:29	03/13/16 17:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 17:17	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 17:17	1
Chromium	**0.046**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:17	1
Copper	**0.028**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:17	1
Iron	**43**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 17:17	1
Lead	**0.025**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 17:17	1
Manganese	**0.58**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:17	1
Nickel	**0.033**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 17:17	1

Client Sample ID: AL47-1(0-1)-030716
Date Collected: 03/07/16 15:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-5
Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:17	1
Zinc	**0.68**	**B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 17:17	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.20	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Arsenic	**2.4**		0.49	0.23	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Barium	**36**		0.49	0.090	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Beryllium	**0.23**		0.20	0.043	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Cadmium	**0.056**	**J**	0.099	0.029	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Calcium	**20000**	**B**	9.9	3.2	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Chromium	**7.4**	**B**	2.5	0.085	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Cobalt	**3.2**		0.25	0.056	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Copper	**4.8**		0.49	0.11	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Iron	**5700**		11	4.2	mg/Kg	☼	03/15/16 15:25	03/16/16 11:32	1
Lead	**12**		0.25	0.12	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Magnesium	**12000**	**B**	4.9	2.0	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Manganese	**270**	**B**	0.49	0.098	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Nickel	**6.9**	**B**	2.5	0.13	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Potassium	**520**		25	4.0	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Sodium	**240**		49	6.5	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Vanadium	**11**		0.25	0.072	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1
Zinc	**27**		0.99	0.31	mg/Kg	☼	03/10/16 10:00	03/10/16 16:54	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**18**		17	8.9	ug/Kg	☼	03/10/16 19:30	03/13/16 15:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**783**		0.200	0.200	SU			03/09/16 21:20	1

Qualifiers

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

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL (
Phone: 708.534.5200 Fax: 708.5

500-108439 COC

(optional)

Report To
Contact: S. Babasubkumar
Company: Weston Solutions
Address: 300 plaza cir, ste 201
Address: Middlesex, JC 08060
Phone: 224-806-4-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108439

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 3.1/2.4

Client: Weston
Client Project #:
Project Name: FDOT 034
Project Location/State: Wilmington, NC
Lab Project #:
Sampler: A. Tuckaset
Lab PM: Dick Weight

Preservative
Parameter

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP metals	PAH	Comments
1		RS2-2(0-1)-030716	3/7/16	1420	2	S	X	X	X	X	X	
2		RS2-2(0-1)-030716D	3/7/16	1420	2	S	X	X	X	X	X	
3		RS2-3(0-1)-030716	3/7/16	1435	2	S	X	X	X	X	X	
4		AL48-4(0-1)-030716	3/7/16	1450	2	S	X	X	X	X	X	
5		AL47-1(0-1)-030716	3/7/16	1500	2	S	X	X	X	X	X	
6		RUM-1(0-1)-030716	3/7/16	1510	2	S	X	X	X	X	X	
7		RUM-2(0-1)-030716	3/7/16	1516	2	S	X	X	X	X	X	
8		RS5-1(0-1)-030716	3/7/16	1525	2	S	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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1558		TA	3/7/16	1558
	TA	3/7/16	1635		TA-CHE	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

Illinois Environmental Protection Agency

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

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

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

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20000 block of IL 102 (ISGS Site No. 2946-48)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.267595449 (Decimal Degrees) Longitude: -88.119637590 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.267595449 Longitude: -88.119637590

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 AL48-3 AND AL48-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-48. SEE FIGURES 3-4 AND 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108438-1 AND 500-108439-1.
ALSO SEE FIGURES 4-4 AND 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 APRIL 2016
Date:

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

Summary Table of ISGS Site No. 2946-48
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL48-3(0-1)-030716	AL48-4(0-1)-030716	Soil Reference Concentrations[A]
Sample Date	3/7/2016	3/7/2016	
Location ID	AL48-3	AL48-4	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-48	2946-48	
Parameter			
Laboratory pH (s.u.)	7.64	7.69	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
2-Methylnaphthalene	13 J	ND	---
Acenaphthene	15 J	ND	570000
Acenaphthylene	230	66	---
Anthracene	86	52	1.20E+07
Benzo(a)anthracene	330	440 J	900 / 1100 / 1800
Benzo(a)pyrene	510 *	540 J	90 / 1300 / 2100
Benzo(b)fluoranthene	980 *	880 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	290 *	350 J	---
Benzo(k)fluoranthene	320 *	340 J	9000
Chrysene	390	470 J	88000
Dibenzo(a,h)anthracene	69 *	65 J	90 / 200 / 420
Fluoranthene	470	620	3100000
Fluorene	17 J	ND	560000
Indeno(1,2,3-cd)pyrene	320 *	310 J	900 / 900 / 1600
Naphthalene, SVOC	29 J	ND	1800
Phenanthrene	170	120	---
Pyrene	840	1300 J	2300000
Total Metals (mg/kg)			
Antimony, Total	ND	0.35 J	5
Arsenic, Total	3	2.7	11.3 / 13
Barium, Total	52	37 J	1500
Beryllium, Total	0.29	0.3	22
Cadmium, Total	0.27	0.21	5.2
Calcium, Total	26000 B	99000 J	---
Chromium, Total	14 B	15 B	21
Cobalt, Total	4.5	3.6 J	20
Copper, Total	10	8.5 J	2900
Iron, Total	8200 B	9900 J+	15000 / 15900
Lead, Total	81	78 J	107
Magnesium, Total	17000	47000 J	325000
Manganese, Total	410 B	400 J	630 / 636
Mercury, Total	0.022	0.023	0.89
Nickel, Total	9.9 B	8.4 B	100
Potassium, Total	660	700 J	---
Sodium, Total	570	440 J	---
Vanadium, Total	13	9.9 J	550
Zinc, Total	76	58 J	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.32 J	0.4 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	0.0022 J	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.071	0.78	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Zinc, TCLP	ND	0.88 B	5

Summary Table of ISGS Site No. 2946-48
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL48-3(0-1)-030716	AL48-4(0-1)-030716	Soil Reference Concentrations[A]
Sample Date	3/7/2016	3/7/2016	
Location ID	AL48-3	AL48-4	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-48	2946-48	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.016 J	ND	0.05
Barium, SPLP	0.23 J	ND	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.046	ND	0.1
Cobalt, SPLP	0.01 J	ND	1
Copper, SPLP	0.034	ND	0.65
Iron, SPLP	48 J+	5.2 J+	5
Lead, SPLP	0.075	0.014	0.0075
Manganese, SPLP	0.51	0.083	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.036	ND	0.1
Zinc, SPLP	0.2 J	ND	5

Notes:

--- - not applicable or value not available.

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

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108438-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 11:25:45 AM

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

Client Sample ID: AL48-3(0-1)-030716

Date Collected: 03/07/16 12:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-14

Matrix: Solid
Percent Solids: 84.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 18:05	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 18:05	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/09/16 18:05	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:05	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 18:05	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 18:05	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 18:05	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:05	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 18:05	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:05	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:05	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:05	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 18:05	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/09/16 18:05	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:05	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/09/16 18:05	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 18:05	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 18:05	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 18:05	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 18:05	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 18:05	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/09/16 18:05	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 18:05	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:05	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:05	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:05	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/09/16 18:05	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 18:05	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 18:05	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 18:05	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 18:05	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:05	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 18:05	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 18:05	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 18:05	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/09/16 18:05*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*03/09/16 18:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*03/09/16 18:05*	*1*
Toluene-d8 (Surr)	*115*		*75 - 122*		*03/09/16 18:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1

Client Sample ID: AL48-3(0-1)-030716
Date Collected: 03/07/16 12:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-14
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2-Methylnaphthalene	**13**	**J**	38	7.0	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Acenaphthene	**15**	**J**	38	6.8	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Acenaphthylene	**230**		38	5.0	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Anthracene	**86**		38	6.4	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Benzo[a]anthracene	**330**		38	5.1	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Benzo[a]pyrene	**510**	*****	38	7.4	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Benzo[b]fluoranthene	**980**	*****	38	8.2	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Benzo[g,h,i]perylene	**290**	*****	38	12	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Benzo[k]fluoranthene	**320**	*****	38	11	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Carbazole	<190		190	95	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Chrysene	**390**		38	10	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Dibenz(a,h)anthracene	**69**	*****	38	7.4	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Fluoranthene	**470**		38	7.1	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Fluorene	**17**	**J**	38	5.4	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1

Client Sample ID: AL48-3(0-1)-030716
Date Collected: 03/07/16 12:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-14
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**320**	*	38	9.9	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Isophorone	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Naphthalene	**29**	J	38	5.9	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Phenanthrene	**170**		38	5.3	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Phenol	<190		190	85	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1
Pyrene	**840**		38	7.6	ug/Kg	☼	03/09/16 07:22	03/12/16 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*35 - 137*	*03/09/16 07:22*	*03/12/16 03:37*	*1*
2-Fluorobiphenyl	*74*		*25 - 119*	*03/09/16 07:22*	*03/12/16 03:37*	*1*
2-Fluorophenol	*86*		*25 - 110*	*03/09/16 07:22*	*03/12/16 03:37*	*1*
Nitrobenzene-d5	*69*		*25 - 115*	*03/09/16 07:22*	*03/12/16 03:37*	*1*
Phenol-d5	*83*		*31 - 110*	*03/09/16 07:22*	*03/12/16 03:37*	*1*
Terphenyl-d14	*157*	*X*	*36 - 134*	*03/09/16 07:22*	*03/12/16 03:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/14/16 14:42	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/12/16 12:32	03/14/16 14:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/14/16 14:42	1
Cadmium	**0.0022**	J	0.0050	0.0020	mg/L		03/12/16 12:32	03/14/16 14:42	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 14:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 14:42	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 14:42	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/14/16 14:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/14/16 14:42	1
Manganese	**0.071**		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 14:42	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 14:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/14/16 14:42	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 14:42	1
Zinc	**0.064**	J B ^	0.50	0.020	mg/L		03/12/16 12:32	03/14/16 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	J	0.050	0.010	mg/L		03/12/16 12:37	03/13/16 10:36	1
Barium	**0.23**	J	0.50	0.050	mg/L		03/12/16 12:37	03/13/16 10:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 10:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 10:36	1
Chromium	**0.046**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:36	1
Cobalt	**0.010**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:36	1
Copper	**0.034**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:36	1
Iron	**48**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 10:36	1
Lead	**0.075**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 10:36	1
Manganese	**0.51**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:36	1
Nickel	**0.036**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 10:36	1

Client Sample ID: AL48-3(0-1)-030716
Date Collected: 03/07/16 12:00
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-14
Matrix: Solid
Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:36	1
Zinc	**0.20**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 10:36	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.22	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Arsenic	**3.0**		0.52	0.24	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Barium	**52**		0.52	0.096	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Beryllium	**0.29**		0.21	0.045	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Cadmium	**0.27**		0.10	0.030	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Calcium	**26000**	**B**	10	3.4	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Chromium	**14**	**B**	0.52	0.090	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Cobalt	**4.5**		0.26	0.059	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Copper	**10**		0.52	0.11	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Iron	**8200**	**B**	10	4.0	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Lead	**81**		0.26	0.13	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Magnesium	**17000**		5.2	2.1	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Manganese	**410**	**B**	0.52	0.10	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Nickel	**9.9**	**B**	0.52	0.14	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Potassium	**660**		26	4.3	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Selenium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Sodium	**570**		52	6.9	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Vanadium	**13**		0.26	0.077	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1
Zinc	**76**		1.0	0.33	mg/Kg	☼	03/10/16 09:27	03/10/16 23:52	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**22**		19	10	ug/Kg	☼	03/10/16 19:30	03/13/16 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.64**		0.200	0.200	SU			03/09/16 20:28	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-108438 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108438

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.1, 2.4

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1		APS-2(0-1)-030716	3/7/16	0852	2	S		X	X	X	X	X					
2		APS-2(0-1)-030716 D	3/7/16	0852	2	S		X	X	X	X	X					
3		APS-3(0-1)-030716	3/7/16	0918	2	S		X	X	X	X	X					
4		APS-4(0-1)-030716	3/7/16	0935	2	S		X	X	X	X	X					
5		ALSS-1(0-1)-030716	3/7/16	0956	2	S		X	X	X	X	X					
6		ALSS-2(0-1)-030716	3/7/16	1007	2	S		X	X	X	X	X					
7		RS4-1(0-1)-030716	3/7/16	1020	2	S		X	X	X	X	X					
8		RS4-2(0-1)-030716	3/7/16	1030	2	S		X	X	X	X	X					
9		RS4-3(0-1)-030716	3/7/16	1050	2	S		X	X	X	X	X					
10		RS4-4(0-1)-030716	3/7/16	1110	2	S		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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHI	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

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

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

Chain of Custody Record

Lab Job #: 500-108438
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Rick Weight

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	PID					Comments
11		AL48-1(0-1)-030716	3/7/16	1130	2	S		X	X	X	X	X					
12		AL48-1(0-1)-030716D	3/7/16	1130	2	S		X	X	X	X	X					
13		AL48-2(0-1)-030716	3/7/16	1144	2	S		X	X	X	X	X					
14		AL48-3(0-1)-030716	3/7/16	1200	2	S		X	X	X	X	X					
15		VL53-1(0-1)-030716	3/7/16	1215	2	S		X	X	X	X	X					
16		VL53-2(0-1)-030716	3/7/16	1310	2	S		X	X	X	X	X					
17		VL53-3(0-1)-030716	3/7/16	1320	2	S		X	X	X	X	X					
18		VL53-4(0-1)-030716	3/7/16	1335	2	S		X	X	X	X	X					
19		VL53-5(0-1)-030716	3/7/16	1352	2	S		X	X	X	X	X					
20		RS2-1(0-1)-030716	3/7/16	1405	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHT	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/16/2016

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: 500-108439-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 4:32:40 PM

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

Client Sample ID: AL48-4(0-1)-030716

Date Collected: 03/07/16 14:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-4

Matrix: Solid
Percent Solids: 85.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 04:42	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 04:42	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/09/16 04:42	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 04:42	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 04:42	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 04:42	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 04:42	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 04:42	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 04:42	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 04:42	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 04:42	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 04:42	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 04:42	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/09/16 04:42	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 04:42	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/09/16 04:42	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 04:42	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 04:42	1
1,3-Dichloropropene, Total	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 04:42	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 04:42	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 04:42	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/09/16 04:42	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 04:42	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 04:42	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 04:42	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 04:42	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/09/16 04:42	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 04:42	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/09/16 04:42	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 04:42	1
trans-1,3-Dichloropropene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 04:42	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 04:42	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 04:42	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 04:42	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 04:42	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/09/16 04:42*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/09/16 04:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/09/16 04:42*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 04:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1

Client Sample ID: AL48-4(0-1)-030716
Date Collected: 03/07/16 14:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-4
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2,4-Dimethylphenol	<370	*	370	140	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Acenaphthylene	**66**		37	4.9	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Anthracene	**52**		37	6.2	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Benzo[a]anthracene	**440**	*	37	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Benzo[a]pyrene	**540**	*	37	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Benzo[b]fluoranthene	**880**	*	37	7.9	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Benzo[g,h,i]perylene	**350**	*	37	12	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Benzo[k]fluoranthene	**340**	*	37	11	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Bis(2-ethylhexyl) phthalate	<190	*	190	67	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Chrysene	**470**	*	37	10	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Dibenz(a,h)anthracene	**65**	*	37	7.1	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Fluoranthene	**620**		37	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Client Sample ID: AL48-4(0-1)-030716
Date Collected: 03/07/16 14:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-4
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**310**	*	37	9.5	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Phenanthrene	**120**		37	5.1	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1
Pyrene	**1300**	*	37	7.3	ug/Kg	☼	03/10/16 07:07	03/11/16 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*35 - 137*	*03/10/16 07:07*	*03/11/16 17:31*	*1*
2-Fluorobiphenyl	*76*		*25 - 119*	*03/10/16 07:07*	*03/11/16 17:31*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/10/16 07:07*	*03/11/16 17:31*	*1*
Nitrobenzene-d5	*70*		*25 - 115*	*03/10/16 07:07*	*03/11/16 17:31*	*1*
Phenol-d5	*84*		*31 - 110*	*03/10/16 07:07*	*03/11/16 17:31*	*1*
Terphenyl-d14	*165*	*X *	*36 - 134*	*03/10/16 07:07*	*03/11/16 17:31*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:23	03/12/16 23:37	1
Barium	**0.40**	**J**	0.50	0.050	mg/L		03/12/16 12:23	03/12/16 23:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/12/16 23:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/12/16 23:37	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:37	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:37	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:37	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/12/16 23:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/12/16 23:37	1
Manganese	**0.78**		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:37	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/12/16 23:37	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:37	1
Zinc	**0.88**	**B**	0.50	0.020	mg/L		03/12/16 12:23	03/12/16 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:29	03/13/16 17:10	1
Barium	<0.50		0.50	0.050	mg/L		03/12/16 12:29	03/13/16 17:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 17:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 17:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:10	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:10	1
Iron	**5.2**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 17:10	1
Lead	**0.014**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 17:10	1
Manganese	**0.083**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:10	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 17:10	1

Client Sample ID: AL48-4(0-1)-030716
Date Collected: 03/07/16 14:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-4
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:10	1
Zinc	**0.44**	**J B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 17:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.35**	**J**	1.0	0.21	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Arsenic	**2.7**		0.51	0.23	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Barium	**37**		0.51	0.093	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Beryllium	**0.30**		0.20	0.044	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Cadmium	**0.21**		0.10	0.029	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Calcium	**99000**	**B**	100	33	mg/Kg	☼	03/10/16 10:00	03/10/16 20:30	10
Chromium	**15**	**B**	2.5	0.087	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Cobalt	**3.6**		0.25	0.057	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Copper	**8.5**		0.51	0.11	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Iron	**9900**		11	4.3	mg/Kg	☼	03/15/16 15:25	03/16/16 11:27	1
Lead	**78**		0.25	0.13	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Magnesium	**47000**	**B**	5.1	2.1	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Manganese	**400**	**B**	0.51	0.10	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Nickel	**8.4**	**B**	2.5	0.14	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Potassium	**700**		25	4.1	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Sodium	**440**		51	6.7	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Vanadium	**9.9**		0.25	0.074	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1
Zinc	**58**		1.0	0.32	mg/Kg	☼	03/10/16 10:00	03/10/16 16:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**23**		17	8.9	ug/Kg	☼	03/10/16 19:30	03/13/16 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.69**		0.200	0.200	SU			03/09/16 21:16	1

Qualifiers

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

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL (
Phone: 708.534.5200 Fax: 708.5

500-108439 COC

(optional)

Report To
Contact: S. Babasubkumar
Company: Weston Solutions
Address: 300 plaza cir, ste 201
Address: Middlesex, JC 08060
Phone: 224-806-4-7250
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-108439

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 3.1/2.4

Client: Weston
Client Project #:
Project Name: FDOT 034
Project Location/State: Wilmington, NC
Lab Project #:
Sampler: A. Tuckaset
Lab PM: Dick Weight

Preservative
Parameter

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP metals	PAH	Comments
1		RS2-2(0-1)-030716	3/7/16	1420	2	S	X	X	X	X	X	
2		RS2-2(0-1)-030716D	3/7/16	1420	2	S	X	X	X	X	X	
3		RS2-3(0-1)-030716	3/7/16	1435	2	S	X	X	X	X	X	
4		AL48-4(0-1)-030716	3/7/16	1450	2	S	X	X	X	X	X	
5		AL47-1(0-1)-030716	3/7/16	1500	2	S	X	X	X	X	X	
6		RUM-1(0-1)-030716	3/7/16	1510	2	S	X	X	X	X	X	
7		RUM-2(0-1)-030716	3/7/16	1516	2	S	X	X	X	X	X	
8		RS5-1(0-1)-030716	3/7/16	1525	2	S	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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1558		TA	3/7/16	1558
	TA	3/7/16	1635		TA-CHE	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

Illinois Environmental Protection Agency

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

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

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

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

I. Source Location Information

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

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

20000 block of IL 102 (ISGS Site No. 2946-51)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

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

Latitude: 41.266404244 (Decimal Degrees) Longitude: -88.118348012 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.266404244 Longitude: -88.118348012

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 VL51-2, VL51-4 THROUGH VL51-6, AND VL51-9 THROUGH VL51-11 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-51. SEE FIGUREs 3-4 AND 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108576-1 AND 500-108662-1.
ALSO SEE FIGURES 4-4 AND 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

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

Summary Table of ISGS Site No. 2946-51
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL51-2(0-1)-031016	VL51-2(0-1)-031016D	VL51-4(0-4)-030916	VL51-5(0-4)-030916	VL51-6(0-1)-030916	VL51-9(0-1)-030916	VL51-10(0-1)-030916	VL51-11(0-1)-030916	Soil Reference Concentrations[A]
Sample Date	3/10/2016	3/10/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	
Location ID	VL51-2	VL51-2	VL51-4	VL51-5	VL51-6	VL51-9	VL51-10	VL51-11	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-51	2946-51	2946-51	2946-51	2946-51	2946-51	2946-51	2946-51	
Parameter									
Laboratory pH (s.u.)	8.51	8.42	7.77	8.51	8.42	7.65	7.99	8.03	<6.25,>9.0
VOCs (ug/kg)	None Detected								
SVOCs (ug/kg)									
2-Methylnaphthalene	ND	ND	16 J	ND	14 J	ND	ND	8.6 J	---
Acenaphthene	ND	8.3 J	ND	ND	96	ND	ND	ND	570000
Acenaphthylene	29 J	21 J	61	ND	39	14 J	15 J	40	---
Anthracene	17 J	33 J	41	ND	120	23 J	30 J	27 J	1.20E+07
Benzo(a)anthracene	86 J	200 J	300	ND	580 J	120	160 J	180 J	900 / 1100 / 1800
Benzo(a)pyrene	140 J	240 J	300 J	ND	640 J	170 J	190 J	290 J	90 / 1300 / 2100
Benzo(b)fluoranthene	230 J	440 J	600 J	ND	1000 J	330 J	310 J	380 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	89 J	170 J	120 J	ND	350 J	100 J	310 J	380 J	---
Benzo(k)fluoranthene	86 J	160 J	180 J	ND	310 J	110 J	85 J	170 J	9000
Butyl benzyl phthalate	ND	ND	ND	ND	71 J	ND	ND	ND	930000
Chrysene	110 J	240 J	320	ND	560 J	170	230 J	250 J	88000
Dibenzo(a,h)anthracene	20 J	ND	ND	ND	72 J	ND	ND	52 J	90 / 200 / 420
Dibenzofuran	ND	ND	ND	ND	44 J	ND	ND	ND	---
Fluoranthene	190 J	390 J	390	ND	870	320	180	190	3100000
Fluorene	ND	9.2 J	10 J	ND	86	8.3 J	ND	ND	560000
Indeno(1,2,3-cd)pyrene	78 J	160 J	160 J	ND	360 J	100 J+	210 J+	220 J+	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	6.6 J	ND	7.1 J	6.8 J	1800
Phenanthrene	62 J	220 J	170	ND	660	120	100	90	---
Pyrene	170 J	860 J	920	ND	2400 J	320	470 J	490 J	2300000
Total Metals (mg/kg)									
Antimony, Total	0.21 J	0.31 J	ND	ND	ND	ND	ND	ND	5
Arsenic, Total	3.8 J-	3.4 J-	2.6 J	1.5 J	1.8 J	1.5 J	1.4 J	2.1 J	11.3 / 13
Barium, Total	26 J	20 J	45 J	49 J	39 J	33 J	25 J	57 J	1500
Beryllium, Total	0.34 J	0.26 J	0.3	0.24	0.2 J	0.17 J	0.22 J	0.19 J	22
Cadmium, Total	0.17 J	0.18 J	0.1 J	0.054 J	0.2	0.24	0.2	0.17	5.2
Calcium, Total	120000 J	130000 J	7500 J-	3400 J-	72000 J-	120000 J-	130000 J-	130000 J-	---
Chromium, Total	19 J	5.7 J	9.9 J	6.4 J	11 J	16 J	13 J	17 J	21
Cobalt, Total	3.6	3	5.6	6.6	2.4	2.4	2.2	2.3	20
Copper, Total	7.8 J	6 J	6.7 J	4 J	20 J	10 J	9.7 J	12 J	2900
Iron, Total	7500 J	6000 J	8200 J	7100 J	5200 J	6300 J	5300 J	6200 J	15000 / 15900
Lead, Total	91 J	29 J	26 J	8.8 J	98 J	90 J	63 J	56 J	107
Magnesium, Total	67000 J	78000 J	5100 J-	2500 J-	40000 J-	74000 J-	84000 J-	80000 J-	325000
Manganese, Total	280 J+	260 J+	350 J-	460 J-	220 J-	300 J-	280 J-	300 J-	630 / 636
Mercury, Total	ND	0.011 J	0.014 J	0.017 J	0.013 J	0.016 J	0.03	0.019	0.89
Nickel, Total	7.7 J	6.5 J	8.1 J	5.2 J	5.8 J	5.7 J	6.2 J	6.2 J	100
Potassium, Total	690 J+	650 J+	660 J+	470 J+	550 J+	550 J+	610 J+	580 J+	---
Selenium, Total	0.2 J	ND	0.34 J	ND	0.29 J	ND	ND	ND	1.3
Sodium, Total	730	570	410 J+	450 J+	610 J+	1100 J+	960 J+	1200 J+	---
Vanadium, Total	7.9	6.7	14	11	8.3	5.9	7.3	7.1	550
Zinc, Total	50 J	37 J	36 J	23 J	48 J	70 J	110 J	80 J	5100

Summary Table of ISGS Site No. 2946-51
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL51-2(0-1)-031016	VL51-2(0-1)-031016D	VL51-4(0-4)-030916	VL51-5(0-4)-030916	VL51-6(0-1)-030916	VL51-9(0-1)-030916	VL51-10(0-1)-030916	VL51-11(0-1)-030916	Soil Reference Concentrations[A]
Sample Date	3/10/2016	3/10/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	3/9/2016	
Location ID	VL51-2	VL51-2	VL51-4	VL51-5	VL51-6	VL51-9	VL51-10	VL51-11	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-51	2946-51	2946-51	2946-51	2946-51	2946-51	2946-51	2946-51	
Parameter									
TCLP Metals (mg/l)									
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.19 J	0.19 J	0.33 J	0.23 J	0.34 J	0.17 J	0.2 J	0.27 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.0022 J	0.0028 J	0.0032 J	0.0027 J	0.005
Chromium, TCLP	ND	0.01 J	ND	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.79	0.65	0.4	0.31 J+	0.44 J+	1.1 J+	0.95 J+	1.2 J+	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	0.043 J	0.039 J	0.053 J	0.24 J	0.58	0.26 J	5
SPLP Metals (mg/l)									
Arsenic, SPLP	0.012 J	0.012 J	0.01 J	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.13 J	0.12 J	0.32 J	0.22 J	0.11 J	0.061 J	0.063 J	0.14 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.041	0.042	0.077	0.051	0.031	0.024 J	0.033	0.037	0.1
Cobalt, SPLP	ND	ND	0.016 J	ND	ND	ND	ND	ND	1
Copper, SPLP	0.027	0.032	0.049	0.031	0.05	0.014 J	0.018 J	0.028	0.65
Iron, SPLP	38 J+	38 J+	69 J+	44 J+	20 J+	12 J+	11 J+	27 J+	5
Lead, SPLP	0.074	0.081	0.082	0.031	0.17	0.072	0.097	0.1	0.0075
Manganese, SPLP	0.35	0.38	0.76 B	0.49 B	0.39 B	0.19 B	0.15 B	0.33 B	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.025	0.026	0.055	0.033	0.018 J	ND	ND	0.02 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.18 J	0.18 J	0.29 J	0.17 J	0.17 J	0.12 J	0.45 J	0.24 J	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108662-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 3:07:44 PM

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

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108662-1

Client Sample ID: VL51-2(0-1)-031016
Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-2
Matrix: Solid
Percent Solids: 89.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/14/16 11:02	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 11:02	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/14/16 11:02	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 11:02	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/14/16 11:02	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/14/16 11:02	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 11:02	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 11:02	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/14/16 11:02	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 11:02	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 11:02	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 11:02	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 11:02	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/14/16 11:02	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 11:02	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/14/16 11:02	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/14/16 11:02	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/14/16 11:02	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/14/16 11:02	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/14/16 11:02	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/14/16 11:02	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/14/16 11:02	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/14/16 11:02	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 11:02	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 11:02	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 11:02	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/14/16 11:02	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 11:02	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/14/16 11:02	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/14/16 11:02	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/14/16 11:02	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 11:02	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 11:02	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/14/16 11:02	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 11:02	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/14/16 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*03/14/16 11:02*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/14/16 11:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/14/16 11:02*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*03/14/16 11:02*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1

Client Sample ID: VL51-2(0-1)-031016
Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-2
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Acenaphthylene	**29**	**J**	36	4.8	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Anthracene	**17**	**J**	36	6.0	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Benzo[a]anthracene	**86**		36	4.8	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Benzo[a]pyrene	**140**	*****	36	7.0	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Benzo[b]fluoranthene	**230**	*****	36	7.8	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Benzo[g,h,i]perylene	**89**	*****	36	12	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Benzo[k]fluoranthene	**86**	*****	36	11	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Carbazole	<180		180	90	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Chrysene	**110**		36	9.8	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Dibenz(a,h)anthracene	**20**	**J ***	36	7.0	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Fluoranthene	**190**	**B**	36	6.7	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Fluorene	<36		36	5.1	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1

Client Sample ID: VL51-2(0-1)-031016
Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-2
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**78**	*	36	9.3	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Isophorone	<180		180	40	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Phenanthrene	**62**	B	36	5.0	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Phenol	<180		180	80	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1
Pyrene	**170**		36	7.2	ug/Kg	☼	03/14/16 07:02	03/23/16 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*35 - 137*	*03/14/16 07:02*	*03/23/16 14:00*	*1*
2-Fluorobiphenyl	*111*		*25 - 119*	*03/14/16 07:02*	*03/23/16 14:00*	*1*
2-Fluorophenol	*110*		*25 - 110*	*03/14/16 07:02*	*03/23/16 14:00*	*1*
Nitrobenzene-d5	*102*		*25 - 115*	*03/14/16 07:02*	*03/23/16 14:00*	*1*
Phenol-d5	*107*		*31 - 110*	*03/14/16 07:02*	*03/23/16 14:00*	*1*
Terphenyl-d14	*126*		*36 - 134*	*03/14/16 07:02*	*03/23/16 14:00*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 01:39	1
Barium	**0.19**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 01:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 01:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 01:39	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:39	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:39	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:39	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 01:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 01:39	1
Manganese	**0.79**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:39	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 01:39	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:39	1
Zinc	**0.068**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	J	0.050	0.010	mg/L		03/20/16 14:00	03/22/16 11:59	1
Barium	**0.13**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 11:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 11:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 11:59	1
Chromium	**0.041**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:59	1
Copper	**0.027**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:59	1
Iron	**38**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 11:59	1
Lead	**0.074**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 11:59	1
Manganese	**0.35**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:59	1
Nickel	**0.025**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 11:59	1

Client Sample ID: VL51-2(0-1)-031016
Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-2
Matrix: Solid
Percent Solids: 89.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:59	1
Zinc	**0.18**	**J ^**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 11:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.21**	**J**	0.81	0.17	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Arsenic	**3.8**		0.40	0.19	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Barium	**26**		0.40	0.074	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Beryllium	**0.34**		0.16	0.035	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Cadmium	**0.17**		0.081	0.023	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Calcium	**120000**	**B**	81	26	mg/Kg	☼	03/16/16 11:30	03/20/16 02:02	10
Chromium	**19**		0.40	0.070	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Cobalt	**3.6**		0.20	0.046	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Copper	**7.8**		0.40	0.088	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Iron	**7500**	**B**	8.1	3.1	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Lead	**91**		0.20	0.10	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Magnesium	**67000**	**B**	40	16	mg/Kg	☼	03/16/16 11:30	03/20/16 02:02	10
Manganese	**280**	**B**	0.40	0.080	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Nickel	**7.7**		0.40	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Potassium	**690**		20	3.3	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Selenium	**0.20**	**J**	0.40	0.20	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Silver	<0.20		0.20	0.047	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Sodium	**730**		40	5.3	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Thallium	<0.40		0.40	0.20	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Vanadium	**7.9**		0.20	0.059	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1
Zinc	**50**		0.81	0.26	mg/Kg	☼	03/16/16 11:30	03/19/16 06:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 19:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.3	ug/Kg	☼	03/18/16 15:00	03/19/16 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.51**		0.200	0.200	SU			03/12/16 14:52	1

Client Sample ID: VL51-2(0-1)-031016D
Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-3
Matrix: Solid
Percent Solids: 90.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/14/16 11:28	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 11:28	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/14/16 11:28	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 11:28	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 11:28	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 11:28	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 11:28	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 11:28	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/14/16 11:28	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 11:28	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 11:28	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 11:28	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 11:28	1
Dibromochloromethane	<5.5		5.5	0.64	ug/Kg	☼		03/14/16 11:28	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 11:28	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/14/16 11:28	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 11:28	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 11:28	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/14/16 11:28	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 11:28	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/14/16 11:28	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/14/16 11:28	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 11:28	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 11:28	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 11:28	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 11:28	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/14/16 11:28	1
Tetrachloroethene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 11:28	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/14/16 11:28	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 11:28	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/14/16 11:28	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 11:28	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 11:28	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 11:28	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 11:28	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/14/16 11:28*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/14/16 11:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/14/16 11:28*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*03/14/16 11:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1

Client Sample ID: VL51-2(0-1)-031016D
Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-3
Matrix: Solid
Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Acenaphthene	**8.3**	**J**	36	6.5	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Acenaphthylene	**21**	**J**	36	4.8	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Anthracene	**33**	**J**	36	6.0	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Benzo[a]anthracene	**200**	*****	36	4.9	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Benzo[a]pyrene	**240**	*****	36	7.0	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Benzo[b]fluoranthene	**440**	*****	36	7.8	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Benzo[g,h,i]perylene	**170**	*****	36	12	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Benzo[k]fluoranthene	**160**	*****	36	11	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Carbazole	<180		180	90	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Chrysene	**240**	*****	36	9.8	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Dibenz(a,h)anthracene	<36	*	36	7.0	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Fluoranthene	**390**	**B**	36	6.7	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Fluorene	**9.2**	**J**	36	5.1	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1

Client Sample ID: VL51-2(0-1)-031016D
Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-3
Matrix: Solid
Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**160**	*	36	9.4	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Isophorone	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Phenanthrene	**220**	B	36	5.0	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Phenol	<180		180	80	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1
Pyrene	**860**	*	36	7.2	ug/Kg	☼	03/14/16 07:02	03/21/16 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*35 - 137*	*03/14/16 07:02*	*03/21/16 14:25*	*1*
2-Fluorobiphenyl	*81*		*25 - 119*	*03/14/16 07:02*	*03/21/16 14:25*	*1*
2-Fluorophenol	*96*		*25 - 110*	*03/14/16 07:02*	*03/21/16 14:25*	*1*
Nitrobenzene-d5	*73*		*25 - 115*	*03/14/16 07:02*	*03/21/16 14:25*	*1*
Phenol-d5	*93*		*31 - 110*	*03/14/16 07:02*	*03/21/16 14:25*	*1*
Terphenyl-d14	*204*	*X *	*36 - 134*	*03/14/16 07:02*	*03/21/16 14:25*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 01:44	1
Barium	**0.19**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 01:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 01:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 01:44	1
Chromium	**0.010**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:44	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:44	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 01:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 01:44	1
Manganese	**0.65**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:44	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 01:44	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 01:44	1
Zinc	**0.046**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	J	0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:03	1
Barium	**0.12**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:03	1
Chromium	**0.042**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:03	1
Copper	**0.032**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:03	1
Iron	**38**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:03	1
Lead	**0.081**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 12:03	1
Manganese	**0.38**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:03	1
Nickel	**0.026**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:03	1

Client Sample ID: VL51-2(0-1)-031016D

Date Collected: 03/10/16 08:47
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-3

Matrix: Solid
Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:03	1
Zinc	**0.18**	**J ^**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 12:03	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	0.85	0.18	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Arsenic	**3.4**		0.43	0.20	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Barium	**20**		0.43	0.078	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Beryllium	**0.26**		0.17	0.037	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Cadmium	**0.18**		0.085	0.025	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Calcium	**130000**	**B**	85	27	mg/Kg	☼	03/16/16 11:30	03/20/16 02:06	10
Chromium	**5.7**		0.43	0.073	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Cobalt	**3.0**		0.21	0.048	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Copper	**6.0**		0.43	0.093	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Iron	**6000**	**B**	8.5	3.3	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Lead	**29**		0.21	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Magnesium	**78000**	**B**	43	17	mg/Kg	☼	03/16/16 11:30	03/20/16 02:06	10
Manganese	**260**	**B**	0.43	0.085	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Nickel	**6.5**		0.43	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Potassium	**650**		21	3.5	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Selenium	<0.43		0.43	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Silver	<0.21		0.21	0.050	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Sodium	**570**		43	5.6	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Thallium	<0.43		0.43	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Vanadium	**6.7**		0.21	0.062	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1
Zinc	**37**		0.85	0.27	mg/Kg	☼	03/16/16 11:30	03/19/16 06:27	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 19:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**	**J**	18	9.2	ug/Kg	☼	03/18/16 15:00	03/19/16 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.42**		0.200	0.200	SU			03/12/16 15:02	1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

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

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108662-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

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

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.5

500-108662 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 3.4

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: Alistair Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (Pres. 7)	SVOCs (Pres. 7)	Total Metals (Pres. 7)	TCLP/SPLP Metals (Pres. 7)	pH (Pres. 7)					Comments
1		VLS1-3(0-1)-031016	031016	0835	2	S	X	X	X	X	X					
2		VLS1-2(0-1)-031016	↓	0847	↓	↓	↓	↓	↓	↓	↓					
3		VLS1-2(0-1)-031016D	↓	0847	↓	↓	↓	↓	↓	↓	↓					
4		VLS1-1(0-1)-031016	↓	0900	↓	↓	↓	↓	↓	↓	↓					
5		ALS6-4(0-1)-031016	↓	0916	↓	↓	↓	↓	↓	↓	↓					
6		ALS6-3(0-1)-031016	↓	0924	↓	↓	↓	↓	↓	↓	↓					
7		ALS6-2(0-1)-031016	↓	0935	↓	↓	↓	↓	↓	↓	↓					
8		ALS6-1(0-1)-031016	↓	0951	↓	↓	↓	↓	↓	↓	↓					
9		VLS8-4(0-1)-031016	↓	1005	↓	↓	↓	↓	↓	↓	↓					
10		VLS8-3(0-1)-031016	↓	1020	↓	↓	↓	↓	↓	↓	↓					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Per contract Other
Requested Due Date ___

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
A. A.	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	Sherri Scott	TA-CAL	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1208) 3/24/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
		Parameter						VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		VL58-2(0-1)-031016	031016	1025	2	S		X	X	X	X	X					
12		VL58-2(0-1)-031016D		1025				X	X	X	X	X					
13		VL58-1(0-1)-031016		1035				X	X	X	X	X					
14		BP-3(0-1)-031016		1045				X	X	X	X	X					
15		BP-2(0-1)-031016		1100				X	X	X	X	X					
16		BP-1(0-1)-031016		1110				X	X	X	X	X					
17		FPD-7(0-1)-031016		1116				X	X	X	X	X					
18		FPD-6(0-1)-031016		1122				X	X	X	X	X					
19		FPD-5(0-1)-031016		1130				X	X	X	X	X					
20		FPD-4(0-1)-031016		1141				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Quickturnaround Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-108576-1
Client Project/Site: IDOT - IL Route 102 - WO 039

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

Attn: Mr. S. Babusukumar

Authorized for release by:
3/22/2016 1:20:21 PM

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

Client Sample ID: VL51-11(0-1)-030916
Date Collected: 03/09/16 13:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-11
Matrix: Solid
Percent Solids: 83.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/12/16 16:21	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/12/16 16:21	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/12/16 16:21	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 16:21	1
Bromomethane	<6.0	*	6.0	2.2	ug/Kg	☼		03/12/16 16:21	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/12/16 16:21	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/12/16 16:21	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 16:21	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/12/16 16:21	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 16:21	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 16:21	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 16:21	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 16:21	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/12/16 16:21	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 16:21	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		03/12/16 16:21	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/12/16 16:21	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/12/16 16:21	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/12/16 16:21	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/12/16 16:21	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/12/16 16:21	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/12/16 16:21	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/12/16 16:21	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 16:21	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 16:21	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 16:21	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/12/16 16:21	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 16:21	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/12/16 16:21	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/12/16 16:21	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/12/16 16:21	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 16:21	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/12/16 16:21	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/12/16 16:21	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/12/16 16:21	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/12/16 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/12/16 16:21*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/12/16 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*03/12/16 16:21*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/12/16 16:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2,2'-oxybis[1-chloropropane]	<190	*	190	45	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1

Client Sample ID: VL51-11(0-1)-030916
Date Collected: 03/09/16 13:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-11
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2-Methylnaphthalene	**8.6**	**J**	38	7.1	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
2-Nitrophenol	<380		380	92	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Acenaphthene	<38		38	7.0	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Acenaphthylene	**40**		38	5.1	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Anthracene	**27**	**J**	38	6.5	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Benzo[a]anthracene	**180**	*****	38	5.2	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Benzo[a]pyrene	**290**	*****	38	7.5	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Benzo[b]fluoranthene	**380**	*****	38	8.4	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Benzo[g,h,i]perylene	**380**	*****	38	12	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Benzo[k]fluoranthene	**170**	*****	38	11	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Bis(2-ethylhexyl) phthalate	**140**	**J B ***	190	71	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Butyl benzyl phthalate	<190	*	190	74	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Carbazole	<190		190	97	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Chrysene	**250**	*****	38	11	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Dibenz(a,h)anthracene	**52**	*****	38	7.5	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Fluoranthene	**190**		38	7.2	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1

Client Sample ID: VL51-11(0-1)-030916
Date Collected: 03/09/16 13:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-11
Matrix: Solid
Percent Solids: 83.8

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	**220**	*	38	10	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Isophorone	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Naphthalene	**6.8**	J	38	6.0	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Nitrobenzene	<38		38	9.7	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Phenanthrene	**90**		38	5.4	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Phenol	<190		190	86	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1
Pyrene	**490**	*	38	7.7	ug/Kg	☼	03/11/16 15:19	03/18/16 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*35 - 137*	*03/11/16 15:19*	*03/18/16 19:42*	*1*
2-Fluorobiphenyl	*115*		*25 - 119*	*03/11/16 15:19*	*03/18/16 19:42*	*1*
2-Fluorophenol	*103*		*25 - 110*	*03/11/16 15:19*	*03/18/16 19:42*	*1*
Nitrobenzene-d5	*101*		*25 - 115*	*03/11/16 15:19*	*03/18/16 19:42*	*1*
Phenol-d5	*102*		*31 - 110*	*03/11/16 15:19*	*03/18/16 19:42*	*1*
Terphenyl-d14	*173*	*X *	*36 - 134*	*03/11/16 15:19*	*03/18/16 19:42*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 18:22	1
Barium	**0.27**	J	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 18:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 18:22	1
Cadmium	**0.0027**	J	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 18:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:22	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:22	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 18:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 18:22	1
Manganese	**1.2**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 18:22	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:22	1
Zinc	**0.26**	J	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 08:40	03/19/16 04:42	1
Barium	**0.14**	J	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 04:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 04:42	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 04:42	1
Chromium	**0.037**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:42	1
Copper	**0.028**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:42	1
Iron	**27**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 04:42	1
Lead	**0.10**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 04:42	1
Manganese	**0.33**	B	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:42	1
Nickel	**0.020**	J	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:42	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 04:42	1

Client Sample ID: VL51-11(0-1)-030916
Date Collected: 03/09/16 13:42
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-11
Matrix: Solid
Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:42	1
Zinc	**0.24**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 04:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.24	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Arsenic	**2.1**		0.58	0.27	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Barium	**57**		2.9	0.53	mg/Kg	☼	03/16/16 09:16	03/18/16 23:52	5
Beryllium	**0.19**	**J**	0.23	0.050	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Cadmium	**0.17**		0.12	0.033	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Calcium	**130000**	**B**	58	19	mg/Kg	☼	03/16/16 09:16	03/18/16 23:52	5
Chromium	**17**		0.58	0.099	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Cobalt	**2.3**		0.29	0.065	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Copper	**12**		0.58	0.12	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Iron	**6200**		12	4.4	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Lead	**56**		0.29	0.14	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Magnesium	**80000**	**B**	29	12	mg/Kg	☼	03/16/16 09:16	03/18/16 23:52	5
Manganese	**300**		2.9	0.57	mg/Kg	☼	03/16/16 09:16	03/18/16 23:52	5
Nickel	**6.2**		0.58	0.16	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Potassium	**580**		140	23	mg/Kg	☼	03/16/16 09:16	03/18/16 23:52	5
Selenium	<0.58		0.58	0.28	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Sodium	**1200**	**B**	58	7.6	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Thallium	<0.58		0.58	0.28	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Vanadium	**7.1**		0.29	0.084	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1
Zinc	**80**		1.2	0.36	mg/Kg	☼	03/16/16 09:16	03/18/16 00:10	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		17	9.0	ug/Kg	☼	03/16/16 15:00	03/17/16 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.03**		0.200	0.200	SU			03/11/16 19:27	1

Client Sample ID: VL51-10(0-1)-030916
Date Collected: 03/09/16 13:52
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-12
Matrix: Solid
Percent Solids: 84.4

Method: 8260B - VOC

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/12/16 16:47*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/12/16 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*		*03/12/16 16:47*	*1*
Toluene-d8 (Surr)	*110*		*75 - 122*		*03/12/16 16:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2,2'-oxybis[1-chloropropane]	<190	*	190	44	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1

Client Sample ID: VL51-10(0-1)-030916
Date Collected: 03/09/16 13:52
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-12
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Acenaphthylene	**15**	**J**	38	5.0	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Anthracene	**30**	**J**	38	6.4	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Benzo[a]anthracene	**160**	*	38	5.2	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Benzo[a]pyrene	**190**	*	38	7.4	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Benzo[b]fluoranthene	**310**	*	38	8.3	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Benzo[g,h,i]perylene	**310**	*	38	12	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Benzo[k]fluoranthene	**85**	*	38	11	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Bis(2-ethylhexyl) phthalate	**200**	**B** *	190	70	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Butyl benzyl phthalate	<190	*	190	73	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Carbazole	<190		190	96	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Chrysene	**230**	*	38	10	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Fluoranthene	**180**		38	7.1	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1

Client Sample ID: VL51-10(0-1)-030916
Date Collected: 03/09/16 13:52
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-12
Matrix: Solid
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	**210**	*	38	9.9	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Isophorone	<190		190	43	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Naphthalene	**7.1**	J	38	5.9	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Phenanthrene	**100**		38	5.3	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Phenol	<190		190	85	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1
Pyrene	**470**	*	38	7.6	ug/Kg	☼	03/11/16 15:19	03/18/16 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*35 - 137*	*03/11/16 15:19*	*03/18/16 20:11*	*1*
2-Fluorobiphenyl	*103*		*25 - 119*	*03/11/16 15:19*	*03/18/16 20:11*	*1*
2-Fluorophenol	*100*		*25 - 110*	*03/11/16 15:19*	*03/18/16 20:11*	*1*
Nitrobenzene-d5	*92*		*25 - 115*	*03/11/16 15:19*	*03/18/16 20:11*	*1*
Phenol-d5	*103*		*31 - 110*	*03/11/16 15:19*	*03/18/16 20:11*	*1*
Terphenyl-d14	*167*	*X *	*36 - 134*	*03/11/16 15:19*	*03/18/16 20:11*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 18:27	1
Barium	**0.20**	J	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 18:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 18:27	1
Cadmium	**0.0032**	J	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 18:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:27	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:27	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 18:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 18:27	1
Manganese	**0.95**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 18:27	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:27	1
Zinc	**0.58**		0.50	0.020	mg/L		03/17/16 15:05	03/18/16 18:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 08:40	03/19/16 04:47	1
Barium	**0.063**	J	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 04:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 04:47	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 04:47	1
Chromium	**0.033**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:47	1
Copper	**0.018**	J	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:47	1
Iron	**11**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 04:47	1
Lead	**0.097**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 04:47	1
Manganese	**0.15**	B	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:47	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 04:47	1

Client Sample ID: VL51-10(0-1)-030916
Date Collected: 03/09/16 13:52
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-12
Matrix: Solid
Percent Solids: 84.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:47	1
Zinc	**0.45**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 04:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.24	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Arsenic	**1.4**		0.57	0.26	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Barium	**25**		2.9	0.52	mg/Kg	☼	03/16/16 09:16	03/18/16 23:57	5
Beryllium	**0.22**	**J**	0.23	0.049	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Cadmium	**0.20**		0.11	0.033	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Calcium	**130000**	**B**	57	18	mg/Kg	☼	03/16/16 09:16	03/18/16 23:57	5
Chromium	**13**		0.57	0.098	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Cobalt	**2.2**		0.29	0.065	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Copper	**9.7**		0.57	0.12	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Iron	**5300**		11	4.4	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Lead	**63**		0.29	0.14	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Magnesium	**84000**	**B**	29	12	mg/Kg	☼	03/16/16 09:16	03/18/16 23:57	5
Manganese	**280**		2.9	0.57	mg/Kg	☼	03/16/16 09:16	03/18/16 23:57	5
Nickel	**6.2**		0.57	0.15	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Potassium	**610**		140	23	mg/Kg	☼	03/16/16 09:16	03/18/16 23:57	5
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Silver	<0.29		0.29	0.067	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Sodium	**960**	**B**	57	7.5	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Vanadium	**7.3**		0.29	0.083	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1
Zinc	**110**		1.1	0.36	mg/Kg	☼	03/16/16 09:16	03/18/16 00:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**30**		19	9.7	ug/Kg	☼	03/16/16 15:00	03/17/16 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.99**		0.200	0.200	SU			03/11/16 19:40	1

Client Sample ID: VL51-9(0-1)-030916
Date Collected: 03/09/16 14:10
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-13
Matrix: Solid
Percent Solids: 85.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/12/16 17:12	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 17:12	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/12/16 17:12	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 17:12	1
Bromomethane	<5.8	*	5.8	2.2	ug/Kg	☼		03/12/16 17:12	1
Carbon disulfide	<5.8		5.8	2.2	ug/Kg	☼		03/12/16 17:12	1
Carbon tetrachloride	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 17:12	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 17:12	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/12/16 17:12	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 17:12	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 17:12	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 17:12	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 17:12	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/12/16 17:12	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 17:12	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/12/16 17:12	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 17:12	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/12/16 17:12	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 17:12	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 17:12	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/12/16 17:12	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/12/16 17:12	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 17:12	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 17:12	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 17:12	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 17:12	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/12/16 17:12	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 17:12	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/12/16 17:12	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/12/16 17:12	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 17:12	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 17:12	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 17:12	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 17:12	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 17:12	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/12/16 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/12/16 17:12*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*03/12/16 17:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/12/16 17:12*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/12/16 17:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2,2'-oxybis[1-chloropropane]	<190	*	190	44	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1

Client Sample ID: VL51-9(0-1)-030916
Date Collected: 03/09/16 14:10
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-13
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Acenaphthylene	**14**	**J**	38	5.0	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Anthracene	**23**	**J**	38	6.4	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Benzo[a]anthracene	**120**		38	5.1	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Benzo[a]pyrene	**170**	*****	38	7.4	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Benzo[b]fluoranthene	**330**	*****	38	8.2	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Benzo[g,h,i]perylene	**100**	*****	38	12	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Benzo[k]fluoranthene	**110**	*****	38	11	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Bis(2-ethylhexyl) phthalate	**110**	**J B**	190	70	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Carbazole	<190		190	95	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Chrysene	**170**		38	10	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Fluoranthene	**320**		38	7.1	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Fluorene	**8.3**	**J**	38	5.4	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108576-1

Client Sample ID: VL51-9(0-1)-030916
Date Collected: 03/09/16 14:10
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-13
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**100**	*	38	9.9	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Isophorone	<190		190	43	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Phenanthrene	**120**		38	5.3	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Phenol	<190		190	85	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1
Pyrene	**320**		38	7.6	ug/Kg	☼	03/11/16 15:19	03/17/16 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*94*		*35 - 137*	*03/11/16 15:19*	*03/17/16 23:54*	*1*
2-Fluorobiphenyl	*84*		*25 - 119*	*03/11/16 15:19*	*03/17/16 23:54*	*1*
2-Fluorophenol	*93*		*25 - 110*	*03/11/16 15:19*	*03/17/16 23:54*	*1*
Nitrobenzene-d5	*79*		*25 - 115*	*03/11/16 15:19*	*03/17/16 23:54*	*1*
Phenol-d5	*99*		*31 - 110*	*03/11/16 15:19*	*03/17/16 23:54*	*1*
Terphenyl-d14	*124*		*36 - 134*	*03/11/16 15:19*	*03/17/16 23:54*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 18:32	1
Barium	**0.17**	J	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 18:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 18:32	1
Cadmium	**0.0028**	J	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 18:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:32	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:32	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 18:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 18:32	1
Manganese	**1.1**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 18:32	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:32	1
Zinc	**0.24**	J	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 18:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 08:40	03/19/16 04:51	1
Barium	**0.061**	J	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 04:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 04:51	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 04:51	1
Chromium	**0.024**	J	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:51	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:51	1
Copper	**0.014**	J	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:51	1
Iron	**12**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 04:51	1
Lead	**0.072**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 04:51	1
Manganese	**0.19**	B	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:51	1
Nickel	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 04:51	1

Client Sample ID: VL51-9(0-1)-030916
Date Collected: 03/09/16 14:10
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-13
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 04:51	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 04:51	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Arsenic	**1.5**		0.57	0.26	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Barium	**33**		2.8	0.52	mg/Kg	☼	03/16/16 09:16	03/19/16 00:02	5
Beryllium	**0.17**	**J**	0.23	0.049	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Cadmium	**0.24**		0.11	0.033	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Calcium	**120000**	**B**	57	18	mg/Kg	☼	03/16/16 09:16	03/19/16 00:02	5
Chromium	**16**		0.57	0.097	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Cobalt	**2.4**		0.28	0.064	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Copper	**10**		0.57	0.12	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Iron	**6300**		11	4.4	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Lead	**90**		0.28	0.14	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Magnesium	**74000**	**B**	28	11	mg/Kg	☼	03/16/16 09:16	03/19/16 00:02	5
Manganese	**300**		2.8	0.56	mg/Kg	☼	03/16/16 09:16	03/19/16 00:02	5
Nickel	**5.7**		0.57	0.15	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Potassium	**550**		140	23	mg/Kg	☼	03/16/16 09:16	03/19/16 00:02	5
Selenium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Sodium	**1100**	**B**	57	7.5	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Thallium	<0.57		0.57	0.28	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Vanadium	**5.9**		0.28	0.083	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1
Zinc	**70**		1.1	0.36	mg/Kg	☼	03/16/16 09:16	03/18/16 00:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**16**	**J**	17	8.8	ug/Kg	☼	03/16/16 15:00	03/17/16 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.65**		0.200	0.200	SU			03/11/16 19:47	1

Client Sample ID: VL51-6(0-1)-030916

Date Collected: 03/09/16 14:51
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-16

Matrix: Solid
Percent Solids: 91.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/12/16 18:28	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 18:28	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/12/16 18:28	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 18:28	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/12/16 18:28	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 18:28	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 18:28	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 18:28	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/12/16 18:28	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 18:28	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 18:28	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 18:28	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/12/16 18:28	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/12/16 18:28	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 18:28	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/12/16 18:28	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 18:28	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 18:28	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/12/16 18:28	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 18:28	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/12/16 18:28	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/12/16 18:28	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/12/16 18:28	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 18:28	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 18:28	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 18:28	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/12/16 18:28	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 18:28	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/12/16 18:28	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/12/16 18:28	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/12/16 18:28	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 18:28	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/12/16 18:28	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/12/16 18:28	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/12/16 18:28	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/12/16 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/12/16 18:28*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/12/16 18:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*03/12/16 18:28*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/12/16 18:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1

Client Sample ID: VL51-6(0-1)-030916
Date Collected: 03/09/16 14:51
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-16
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2-Methylnaphthalene	**14**	**J**	36	6.7	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Acenaphthene	**96**		36	6.5	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Acenaphthylene	**39**		36	4.8	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Anthracene	**120**		36	6.1	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Benzo[a]anthracene	**580**	*	36	4.9	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Benzo[a]pyrene	**640**	*	36	7.0	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Benzo[b]fluoranthene	**1000**	*	36	7.8	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Benzo[g,h,i]perylene	**350**	*	36	12	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Benzo[k]fluoranthene	**310**	*	36	11	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Bis(2-ethylhexyl) phthalate	<180	*	180	66	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Butyl benzyl phthalate	**71**	**J ***	180	69	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Carbazole	<180		180	91	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Chrysene	**560**	*	36	9.9	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Dibenz(a,h)anthracene	**72**	*	36	7.0	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Dibenzofuran	**44**	**J**	180	43	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Fluoranthene	**870**		36	6.7	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Fluorene	**86**		36	5.1	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1

Client Sample ID: VL51-6(0-1)-030916
Date Collected: 03/09/16 14:51
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-16
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**360**	*	36	9.4	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Isophorone	<180		180	41	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Naphthalene	**6.6**	J	36	5.6	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Phenanthrene	**660**		36	5.1	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Phenol	<180		180	81	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1
Pyrene	**2400**	*	36	7.2	ug/Kg	☼	03/20/16 10:00	03/20/16 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*35 - 137*	*03/20/16 10:00*	*03/20/16 17:00*	*1*
2-Fluorobiphenyl	*68*		*25 - 119*	*03/20/16 10:00*	*03/20/16 17:00*	*1*
2-Fluorophenol	*84*		*25 - 110*	*03/20/16 10:00*	*03/20/16 17:00*	*1*
Nitrobenzene-d5	*56*		*25 - 115*	*03/20/16 10:00*	*03/20/16 17:00*	*1*
Phenol-d5	*74*		*31 - 110*	*03/20/16 10:00*	*03/20/16 17:00*	*1*
Terphenyl-d14	*169*	*X *	*36 - 134*	*03/20/16 10:00*	*03/20/16 17:00*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 18:47	1
Barium	**0.34**	J	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 18:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 18:47	1
Cadmium	**0.0022**	J	0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 18:47	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:47	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:47	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 18:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 18:47	1
Manganese	**0.44**	F1	0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:47	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 18:47	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 18:47	1
Zinc	**0.053**	J	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 08:40	03/19/16 05:03	1
Barium	**0.11**	J	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 05:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 05:03	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 05:03	1
Chromium	**0.031**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:03	1
Copper	**0.050**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:03	1
Iron	**20**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 05:03	1
Lead	**0.17**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 05:03	1
Manganese	**0.39**	B	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:03	1
Nickel	**0.018**	J	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 05:03	1

Client Sample ID: VL51-6(0-1)-030916
Date Collected: 03/09/16 14:51
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-16
Matrix: Solid
Percent Solids: 91.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:03	1
Zinc	**0.17**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 05:03	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Arsenic	**1.8**		0.54	0.25	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Barium	**39**		2.7	0.49	mg/Kg	☼	03/16/16 09:16	03/19/16 00:17	5
Beryllium	**0.20**	**J**	0.22	0.047	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Cadmium	**0.20**		0.11	0.031	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Calcium	**72000**	**B**	54	17	mg/Kg	☼	03/16/16 09:16	03/19/16 00:17	5
Chromium	**11**		0.54	0.093	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Cobalt	**2.4**		0.27	0.061	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Copper	**20**		0.54	0.12	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Iron	**5200**		11	4.2	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Lead	**98**		0.27	0.13	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Magnesium	**40000**	**B**	5.4	2.2	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Manganese	**220**		2.7	0.53	mg/Kg	☼	03/16/16 09:16	03/19/16 00:17	5
Nickel	**5.8**		0.54	0.15	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Potassium	**550**		140	22	mg/Kg	☼	03/16/16 09:16	03/19/16 00:17	5
Selenium	**0.29**	**J**	0.54	0.27	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Sodium	**610**	**B**	54	7.1	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Vanadium	**8.3**		0.27	0.079	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1
Zinc	**48**		1.1	0.34	mg/Kg	☼	03/16/16 09:16	03/18/16 00:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 16:33	1

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

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

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**13**	**J**	17	8.8	ug/Kg	☼	03/16/16 15:00	03/17/16 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.42**		0.200	0.200	SU			03/12/16 09:30	1

Client Sample ID: VL51-5(0-4)-030916
Date Collected: 03/09/16 15:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-17
Matrix: Solid
Percent Solids: 87.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/12/16 18:53	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 18:53	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/12/16 18:53	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 18:53	1
Bromomethane	<5.7	*	5.7	2.1	ug/Kg	☼		03/12/16 18:53	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 18:53	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 18:53	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 18:53	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/12/16 18:53	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 18:53	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 18:53	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 18:53	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 18:53	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/12/16 18:53	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 18:53	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/12/16 18:53	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/12/16 18:53	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 18:53	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 18:53	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 18:53	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/12/16 18:53	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/12/16 18:53	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 18:53	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 18:53	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 18:53	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 18:53	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/12/16 18:53	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/12/16 18:53	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/12/16 18:53	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 18:53	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/12/16 18:53	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/12/16 18:53	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/12/16 18:53	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/12/16 18:53	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/12/16 18:53	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/12/16 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 122*		*03/12/16 18:53*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/12/16 18:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*03/12/16 18:53*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/12/16 18:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2,2'-oxybis[1-chloropropane]	<190	*	190	44	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108576-1

Client Sample ID: VL51-5(0-4)-030916
Date Collected: 03/09/16 15:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-17
Matrix: Solid
Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Anthracene	<38		38	6.3	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Benzo[a]anthracene	<38		38	5.1	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Benzo[a]pyrene	<38		38	7.3	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Benzo[b]fluoranthene	<38		38	8.2	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Carbazole	<190		190	95	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Chrysene	<38		38	10	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Fluoranthene	<38		38	7.0	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1

Client Sample ID: VL51-5(0-4)-030916
Date Collected: 03/09/16 15:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-17
Matrix: Solid
Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	9.8	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Isophorone	<190		190	43	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Phenol	<190		190	84	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1
Pyrene	<38		38	7.5	ug/Kg	☼	03/11/16 15:19	03/17/16 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*35 - 137*	*03/11/16 15:19*	*03/17/16 22:28*	*1*
2-Fluorobiphenyl	*98*		*25 - 119*	*03/11/16 15:19*	*03/17/16 22:28*	*1*
2-Fluorophenol	*101*		*25 - 110*	*03/11/16 15:19*	*03/17/16 22:28*	*1*
Nitrobenzene-d5	*89*		*25 - 115*	*03/11/16 15:19*	*03/17/16 22:28*	*1*
Phenol-d5	*100*		*31 - 110*	*03/11/16 15:19*	*03/17/16 22:28*	*1*
Terphenyl-d14	*93*		*36 - 134*	*03/11/16 15:19*	*03/17/16 22:28*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/17/16 15:05	03/18/16 19:15	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		03/17/16 15:05	03/18/16 19:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/17/16 15:05	03/18/16 19:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/17/16 15:05	03/18/16 19:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 19:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 19:15	1
Copper	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 19:15	1
Iron	<0.40		0.40	0.20	mg/L		03/17/16 15:05	03/18/16 19:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/17/16 15:05	03/18/16 19:15	1
Manganese	**0.31**		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 19:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 19:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/17/16 15:05	03/18/16 19:15	1
Silver	<0.025		0.025	0.010	mg/L		03/17/16 15:05	03/18/16 19:15	1
Zinc	**0.039**	**J**	0.50	0.020	mg/L		03/17/16 15:05	03/18/16 19:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/18/16 08:40	03/19/16 05:08	1
Barium	**0.22**	**J**	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 05:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 05:08	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 05:08	1
Chromium	**0.051**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:08	1
Copper	**0.031**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:08	1
Iron	**44**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 05:08	1
Lead	**0.031**		0.0075	0.0075	mg/L		03/18/16 08:40	03/19/16 05:08	1
Manganese	**0.49**	**B**	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:08	1
Nickel	**0.033**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 05:08	1

Client Sample ID: VL51-5(0-4)-030916
Date Collected: 03/09/16 15:05
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-17
Matrix: Solid
Percent Solids: 87.6

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:08	1
Zinc	**0.17**	**J**	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 05:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Arsenic	**1.5**		0.54	0.25	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Barium	**49**		0.54	0.099	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Beryllium	**0.24**		0.22	0.047	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Cadmium	**0.054**	**J**	0.11	0.031	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Calcium	**3400**	**B**	11	3.5	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Chromium	**6.4**		0.54	0.093	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Cobalt	**6.6**		0.27	0.061	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Copper	**4.0**		0.54	0.12	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Iron	**7100**		11	4.2	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Lead	**8.8**		0.27	0.13	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Magnesium	**2500**	**B**	5.4	2.2	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Manganese	**460**		0.54	0.11	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Nickel	**5.2**		0.54	0.15	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Potassium	**470**		27	4.4	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Selenium	<0.54		0.54	0.27	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Sodium	**450**	**B**	54	7.1	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Thallium	<0.54		0.54	0.27	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Vanadium	**11**		0.27	0.079	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1
Zinc	**23**		1.1	0.34	mg/Kg	☼	03/16/16 09:16	03/18/16 00:50	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 16:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**	**J**	18	9.5	ug/Kg	☼	03/16/16 15:00	03/17/16 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.51**		0.200	0.200	SU			03/12/16 09:30	1

Client Sample ID: VL51-4(0-4)-030916
Date Collected: 03/09/16 15:25
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-18
Matrix: Solid
Percent Solids: 85.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/12/16 19:18	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 19:18	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/12/16 19:18	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 19:18	1
Bromomethane	<5.8	*	5.8	2.1	ug/Kg	☼		03/12/16 19:18	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 19:18	1
Carbon tetrachloride	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 19:18	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 19:18	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/12/16 19:18	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 19:18	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 19:18	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 19:18	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/12/16 19:18	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/12/16 19:18	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 19:18	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/12/16 19:18	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 19:18	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/12/16 19:18	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 19:18	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 19:18	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/12/16 19:18	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/12/16 19:18	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/12/16 19:18	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 19:18	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 19:18	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 19:18	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/12/16 19:18	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/12/16 19:18	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/12/16 19:18	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/12/16 19:18	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 19:18	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 19:18	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/12/16 19:18	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/12/16 19:18	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/12/16 19:18	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/12/16 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/12/16 19:18*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/12/16 19:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*		*03/12/16 19:18*	*1*
Toluene-d8 (Surr)	*110*		*75 - 122*		*03/12/16 19:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2,2'-oxybis[1-chloropropane]	<190	*	190	44	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1

Client Sample ID: VL51-4(0-4)-030916
Date Collected: 03/09/16 15:25
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-18
Matrix: Solid
Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2-Methylnaphthalene	**16**	**J**	37	6.9	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Acenaphthene	<37		37	6.8	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Acenaphthylene	**61**		37	5.0	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Anthracene	**41**		37	6.3	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Carbazole	<190		190	94	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Fluoranthene	**390**		37	7.0	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Fluorene	**10**	**J**	37	5.3	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Isophorone	<190		190	42	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Phenanthrene	**170**		37	5.2	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1
Phenol	<190		190	84	ug/Kg	☼	03/11/16 15:19	03/18/16 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*35 - 137*	*03/11/16 15:19*	*03/18/16 16:23*	*1*

Client Sample ID: VL51-4(0-4)-030916
Date Collected: 03/09/16 15:25
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-18
Matrix: Solid
Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*108*		*25 - 119*	*03/11/16 15:19*	*03/18/16 16:23*	*1*
2-Fluorophenol	*104*		*25 - 110*	*03/11/16 15:19*	*03/18/16 16:23*	*1*
Nitrobenzene-d5	*100*		*25 - 115*	*03/11/16 15:19*	*03/18/16 16:23*	*1*
Phenol-d5	*108*		*31 - 110*	*03/11/16 15:19*	*03/18/16 16:23*	*1*
Terphenyl-d14	*227*	*X *	*36 - 134*	*03/11/16 15:19*	*03/18/16 16:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	<950		950	260	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Benzo[a]anthracene	**300**		190	25	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Benzo[a]pyrene	**300**	*	190	36	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Benzo[b]fluoranthene	**600**	*	190	41	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Benzo[g,h,i]perylene	**120**	J *	190	61	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Benzo[k]fluoranthene	**180**	J *	190	55	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Bis(2-ethylhexyl) phthalate	<950		950	340	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Butyl benzyl phthalate	<950		950	360	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Chrysene	**320**		190	51	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Dibenz(a,h)anthracene	<190	*	190	36	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Indeno[1,2,3-cd]pyrene	**160**	J *	190	49	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5
Pyrene	**920**		190	37	ug/Kg	☼	03/11/16 15:19	03/19/16 14:10	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/21/16 20:57	1
Barium	**0.33**	J	0.50	0.050	mg/L		03/21/16 09:00	03/21/16 20:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/21/16 20:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/21/16 20:57	1
Chromium	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 20:57	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 20:57	1
Copper	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 20:57	1
Iron	<0.40		0.40	0.20	mg/L		03/21/16 09:00	03/21/16 20:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/21/16 09:00	03/21/16 20:57	1
Manganese	**0.40**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 20:57	1
Nickel	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 20:57	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/21/16 20:57	1
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 20:57	1
Zinc	**0.043**	J	0.50	0.020	mg/L		03/21/16 09:00	03/21/16 20:57	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.010**	J	0.050	0.010	mg/L		03/18/16 08:40	03/19/16 05:12	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/18/16 08:40	03/19/16 05:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/18/16 08:40	03/19/16 05:12	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/18/16 08:40	03/19/16 05:12	1
Chromium	**0.077**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:12	1
Cobalt	**0.016**	J	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:12	1
Copper	**0.049**		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:12	1
Iron	**69**		0.40	0.20	mg/L		03/18/16 08:40	03/19/16 05:12	1
Lead	**0.082**		0.038	0.038	mg/L		03/18/16 08:40	03/19/16 20:01	5
Manganese	**0.76**	B	0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:12	1

Client Sample ID: VL51-4(0-4)-030916
Date Collected: 03/09/16 15:25
Date Received: 03/09/16 16:45

Lab Sample ID: 500-108576-18
Matrix: Solid
Percent Solids: 85.6

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.055		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/18/16 08:40	03/19/16 05:12	1
Silver	<0.025		0.025	0.010	mg/L		03/18/16 08:40	03/19/16 05:12	1
Zinc	0.29	J	0.50	0.020	mg/L		03/18/16 08:40	03/19/16 05:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Arsenic	2.6		0.56	0.26	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Barium	45		0.56	0.10	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Beryllium	0.30		0.22	0.048	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Cadmium	0.10	J	0.11	0.032	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Calcium	7500	B	11	3.6	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Chromium	9.9		0.56	0.096	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Cobalt	5.6		0.28	0.063	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Copper	6.7		0.56	0.12	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Iron	8200		11	4.3	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Lead	26		0.28	0.14	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Magnesium	5100	B	5.6	2.3	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Manganese	350		0.56	0.11	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Nickel	8.1		0.56	0.15	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Potassium	660		28	4.5	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Selenium	0.34	J	0.56	0.28	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Sodium	410	B	56	7.3	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Vanadium	14		0.28	0.081	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1
Zinc	36		1.1	0.35	mg/Kg	☼	03/16/16 09:16	03/18/16 00:54	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/17/16 16:30	03/18/16 16:13	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/18/16 17:45	03/19/16 14:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	14	J	19	10	ug/Kg	☼	03/16/16 15:00	03/17/16 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77		0.200	0.200	SU			03/12/16 09:30	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108576-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.

500-108576 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-964-2250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108576
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 2.9

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039 - IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. SIMPSON
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH					
1		AL28-6-(0-1)-030916	030916	1159	2	S		X	X	X	X	X					
2		AL28-6-(0-1)D-030916		1159	2	S		X	X	X	X	X					
3		AL28-7-(0-1)-030916		1207	2	S		X	X	X	X	X					
		~~AL32-9(0-1)-030916~~		~~1229~~				~~X~~	~~X~~	~~X~~	~~1~~		A.S				
4		RZ9-2-(0-1)-030916	030916	1229	2	S		X	X	X	X	X					
5		RZ9-1-(0-1)-030916		1242	2	S		X	X	X	X	X					
6		AL28-1-(0-1)-030916		1248	2	S		X	X	X	X	X					
7		VL31-5-(0-1)-030916		1255	2	S		X	X	X	X	X					
8		VL31-3-(0-1)-030916		1305	2	S		X	X	X	X	X					
9		VL43-2-(0-1)-030916		1310	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rejected Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
A. S	WESTON	030916	1555		TA	3/9/16	1555
	TA	3/9/16	1645	Sherri Scott	TA-CHI	3/9/16	1645

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-506 (1209)

3/22/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108576

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

(optional)

Report To
Contact: S. Babu Sukumar
Company: WESTON SOLUTIONS
Address: 300 Plaza Circle, Ste 200
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: WESTON Solutions
Client Project #:
Project Name: IDOT 039-IL RTE 102
Project Location/State: WILMINGTON, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. WRIGHT

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	VOC	SVOC	Total Metals	TCLP/SPLP Metals	pH					Comments
							Parameter										
								7	7	7	7	7					
10		VL43-1-(0-1)-030916	030916	1535	2	S		X	X	X	X	X					
11		VL51-11-(0-1)-030916		1342	2	S		X	X	X	X	X					
12		VL51-10-(0-1)-030916		1352	2	S		X	X	X	X	X					
13		VL51-9-(0-1)-030916		1410	2	S		X	X	X	X	X					
14		VL51-8-(0-1)-030916		1425	2	S		X	X	X	X	X					
15		VL51-7-(0-1)-030916		1439	2	S		X	X	X	X	X					
16		VL51-6-(0-1)-030916		1451	2	S		X	X	X	X	X					
17		VL51-5-(0-4)-030916		1505	2	S		X	X	X	X	X					
18		VL51-4-(0-4)-030916		1525	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Reduced ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
1	A. S	WESTON	030916	1555		TA	3/9/16	1555
2		TA	3/9/16	1645		TA-CHI	3/9/16	1645
3								

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/22/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663 Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

20981 to 21013 IL 102 (ISGS Site No. 2946-52)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.262238639 (Decimal Degrees) Longitude: -88.113937244 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.262238639 Longitude: -88.113937244

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 R52-1 THROUGH R52-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-52. SEE FIGURES 3-4 AND 3-5 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108438-1 AND 500-108439-1.
ALSO SEE FIGURES 4-4 AND 4-5 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

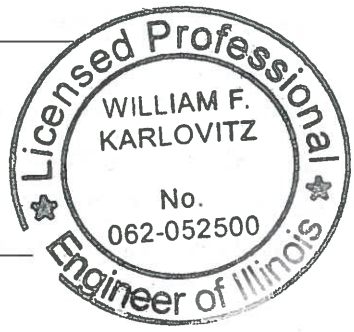
Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:



Summary Table of ISGS Site No. 2946-52
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R52-1(0-1)-030716	R52-2(0-1)-030716	R52-2(0-1)-030716D	R52-3(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	3/7/2016	3/7/2016	3/7/2016	
Location ID	R52-1	R52-2	R52-2	R52-3	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-52	2946-52	2946-52	2946-52	
Parameter					
Laboratory pH (s.u.)	7.87	7.77	7.76	7.74	<6.25,>9.0
VOCs (ug/kg)	None Detected				
SVOCs (ug/kg)					
2-Methylnaphthalene	ND	ND	7.8 J	ND	---
Acenaphthene	ND	ND	ND	26 J	570000
Acenaphthylene	55	7.8 J	10 J	65	---
Anthracene	29 J	8 J	13 J	63	1.20E+07
Benzo(a)anthracene	280 J	64	83 J	180 J	900 / 1100 / 1800
Benzo(a)pyrene	390 J	90 J	110 J	180 J	90 / 1300 / 2100
Benzo(b)fluoranthene	580 J	140 J	190 J	300 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	330 J	ND	64 J	87 J	---
Benzo(k)fluoranthene	240 J	64 J	75 J	140 J	9000
bis(2-Ethylhexyl)phthalate	68 J	ND	ND	ND	46000
Chrysene	320 J	82	99 J	230 J	88000
Fluoranthene	370	110	120	400	3100000
Fluorene	ND	ND	ND	35 J	560000
Indeno(1,2,3-cd)pyrene	240 J	51 J	62 J	95 J	900 / 900 / 1600
Phenanthrene	130	43 J	130 J	410	---
Pyrene	1000 J	190	250 J	890 J	2300000
Total Metals (mg/kg)					
Antimony, Total	0.27 J	0.41 J	0.49 J	ND	5
Arsenic, Total	2.2	1.9	2.4	4.3	11.3 / 13
Barium, Total	23	22 J	24 J	40 J	1500
Beryllium, Total	0.23	0.19	0.19 J	0.35	22
Cadmium, Total	0.16	0.061 J	0.058 J	0.087 J	5.2
Calcium, Total	110000 B	49000 J	30000 J	12000 J	---
Chromium, Total	ND	ND	17 J	ND	21
Cobalt, Total	3	2.7 J	3.2 J	5.5 J	20
Copper, Total	6.3	5.6 J	5.3 J	7.3 J	2900
Iron, Total	6100 B	5400 J+	6400 J+	10000 J+	15000 / 15900
Lead, Total	52	39 J	61 J	20 J	107
Magnesium, Total	65000	27000 J	19000 J	7800 J	325000
Manganese, Total	250 B	230 J	240 J	370 J	630 / 636
Mercury, Total	0.011 J	0.02	0.017 J	0.024	0.89
Nickel, Total	7.2 B	6 B	7.1 B	11 B	100
Potassium, Total	810	520 J	560 J	740 J	---
Selenium, Total	ND	ND	ND	0.47 J	1.3
Sodium, Total	350	290 J	280 J	340 J	---
Vanadium, Total	7.6	8.7 J	9.7 J	13 J	550
Zinc, Total	47	39 J	32 J	45 J	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.2 J	0.2 J	0.22 J	0.34 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	0.0025 J	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.3	1.4	1.5	0.5	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
Zinc, TCLP	ND	1.7 B	1.9 B	0.32 J	5

Summary Table of ISGS Site No. 2946-52
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R52-1(0-1)-030716	R52-2(0-1)-030716	R52-2(0-1)-030716D	R52-3(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	3/7/2016	3/7/2016	3/7/2016	
Location ID	R52-1	R52-2	R52-2	R52-3	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-52	2946-52	2946-52	2946-52	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	ND	ND	0.012 J	ND	0.05
Barium, SPLP	0.084 J	0.077 J	0.14 J	0.097 J	2
Beryllium, SPLP	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.023 J	0.019 J	0.036	0.021 J	0.1
Cobalt, SPLP	ND	ND	ND	ND	1
Copper, SPLP	0.025	0.011 J	0.021 J	0.015 J	0.65
Iron, SPLP	20 J+	16 J	30 J	25 J+	5
Lead, SPLP	0.069	0.026 J	0.052 J	0.016	0.0075
Manganese, SPLP	0.28	0.38 J	0.71 J	0.32	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.017 J	0.014 J	0.027	0.018 J	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.16 J	ND	ND	0.54 J-	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108438-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 11:25:45 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: R52-1(0-1)-030716
Date Collected: 03/07/16 14:05
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-20
Matrix: Solid
Percent Solids: 88.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/09/16 22:28	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:28	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/09/16 22:28	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:28	1
Bromomethane	<5.6	*	5.6	2.1	ug/Kg	☼		03/09/16 22:28	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 22:28	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:28	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:28	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/09/16 22:28	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:28	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 22:28	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:28	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:28	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/09/16 22:28	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:28	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 22:28	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 22:28	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 22:28	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 22:28	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 22:28	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 22:28	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/09/16 22:28	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 22:28	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:28	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:28	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:28	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/09/16 22:28	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 22:28	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 22:28	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 22:28	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 22:28	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:28	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 22:28	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 22:28	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 22:28	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/09/16 22:28*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*03/09/16 22:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/09/16 22:28*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/09/16 22:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1

Client Sample ID: R52-1(0-1)-030716
Date Collected: 03/07/16 14:05
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-20
Matrix: Solid
Percent Solids: 88.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Acenaphthylene	**55**		37	4.9	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Anthracene	**29**	**J**	37	6.2	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Benzo[a]anthracene	**280**	*	37	5.0	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Benzo[a]pyrene	**390**	*	37	7.2	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Benzo[b]fluoranthene	**580**	*	37	8.0	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Benzo[g,h,i]perylene	**330**	*	37	12	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Benzo[k]fluoranthene	**240**	*	37	11	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Bis(2-ethylhexyl) phthalate	**68**	**J ***	190	68	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Carbazole	<190		190	93	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Chrysene	**320**	*	37	10	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Fluoranthene	**370**		37	6.9	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1

Client Sample ID: R52-1(0-1)-030716
Date Collected: 03/07/16 14:05
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-20
Matrix: Solid
Percent Solids: 88.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**240**	*	37	9.6	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Phenanthrene	**130**		37	5.2	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Phenol	<190		190	83	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1
Pyrene	**1000**	*	37	7.4	ug/Kg	☼	03/09/16 07:22	03/10/16 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*49*		*35 - 137*	*03/09/16 07:22*	*03/10/16 18:37*	*1*
2-Fluorobiphenyl	*85*		*25 - 119*	*03/09/16 07:22*	*03/10/16 18:37*	*1*
2-Fluorophenol	*73*		*25 - 110*	*03/09/16 07:22*	*03/10/16 18:37*	*1*
Nitrobenzene-d5	*82*		*25 - 115*	*03/09/16 07:22*	*03/10/16 18:37*	*1*
Phenol-d5	*46*		*31 - 110*	*03/09/16 07:22*	*03/10/16 18:37*	*1*
Terphenyl-d14	*208*	*X *	*36 - 134*	*03/09/16 07:22*	*03/10/16 18:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/14/16 15:17	1
Barium	**0.20**	**J**	0.50	0.050	mg/L		03/12/16 12:32	03/14/16 15:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/14/16 15:17	1
Cadmium	**0.0025**	**J**	0.0050	0.0020	mg/L		03/12/16 12:32	03/14/16 15:17	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:17	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:17	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:17	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/14/16 15:17	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/14/16 15:17	1
Manganese	**1.3**		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:17	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/14/16 15:17	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:17	1
Zinc	**0.14**	**J B ^**	0.50	0.020	mg/L		03/12/16 12:32	03/14/16 15:17	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:37	03/13/16 11:53	1
Barium	**0.084**	**J**	0.50	0.050	mg/L		03/12/16 12:37	03/14/16 15:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/14/16 15:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 11:53	1
Chromium	**0.023**	**J**	0.025	0.010	mg/L		03/12/16 12:37	03/14/16 15:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:53	1
Copper	**0.025**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:53	1
Iron	**20**		0.40	0.20	mg/L		03/12/16 12:37	03/14/16 15:50	1
Lead	**0.069**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 11:53	1
Manganese	**0.28**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:53	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:53	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 11:53	1

Client Sample ID: R52-1(0-1)-030716
Date Collected: 03/07/16 14:05
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-20
Matrix: Solid
Percent Solids: 88.8

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:53	1
Zinc	**0.16**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 11:53	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.27**	**J**	0.86	0.18	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Arsenic	**2.2**		0.43	0.20	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Barium	**23**		0.43	0.079	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Beryllium	**0.23**		0.17	0.037	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Cadmium	**0.16**		0.086	0.025	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Calcium	**110000**	**B**	86	28	mg/Kg	☼	03/10/16 09:27	03/11/16 02:27	10
Chromium	**16**	**B**	5.4	0.92	mg/Kg	☼	03/11/16 15:54	03/12/16 23:04	10
Cobalt	**3.0**		0.22	0.049	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Copper	**6.3**		0.43	0.094	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Iron	**6100**	**B**	8.6	3.3	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Lead	**52**		0.22	0.11	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Magnesium	**65000**		43	18	mg/Kg	☼	03/10/16 09:27	03/11/16 02:27	10
Manganese	**250**	**B**	0.43	0.085	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Nickel	**7.2**	**B**	0.43	0.12	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Potassium	**810**		22	3.5	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Selenium	<0.43		0.43	0.21	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Silver	<0.22		0.22	0.050	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Sodium	**350**		43	5.7	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Thallium	<0.43		0.43	0.21	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Vanadium	**7.6**		0.22	0.063	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1
Zinc	**47**		0.86	0.27	mg/Kg	☼	03/10/16 09:27	03/11/16 00:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 16:13	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**	**J**	19	9.8	ug/Kg	☼	03/10/16 19:30	03/13/16 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.87**		0.200	0.200	SU			03/09/16 21:00	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-108438 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.1, 2.4

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1		APS-2(0-1)-030716	3/7/16	0852	2	S		X	X	X	X	X					
2		APS-2(0-1)-030716 D	3/7/16	0852	2	S		X	X	X	X	X					
3		APS-3(0-1)-030716	3/7/16	0918	2	S		X	X	X	X	X					
4		APS-4(0-1)-030716	3/7/16	0935	2	S		X	X	X	X	X					
5		ALSS-1(0-1)-030716	3/7/16	0956	2	S		X	X	X	X	X					
6		ALSS-2(0-1)-030716	3/7/16	1007	2	S		X	X	X	X	X					
7		RS4-1(0-1)-030716	3/7/16	1020	2	S		X	X	X	X	X					
8		RS4-2(0-1)-030716	3/7/16	1030	2	S		X	X	X	X	X					
9		RS4-3(0-1)-030716	3/7/16	1050	2	S		X	X	X	X	X					
10		RS4-4(0-1)-030716	3/7/16	1110	2	S		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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHI	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Rick Weight

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	PID					Comments
11		AL48-1(0-1)-030716	3/7/16	1130	2	S		X	X	X	X	X					
12		AL48-1(0-1)-030716D	3/7/16	1130	2	S		X	X	X	X	X					
13		AL48-2(0-1)-030716	3/7/16	1144	2	S		X	X	X	X	X					
14		AL48-3(0-1)-030716	3/7/16	1200	2	S		X	X	X	X	X					
15		VL53-1(0-1)-030716	3/7/16	1215	2	S		X	X	X	X	X					
16		VL53-2(0-1)-030716	3/7/16	1310	2	S		X	X	X	X	X					
17		VL53-3(0-1)-030716	3/7/16	1320	2	S		X	X	X	X	X					
18		VL53-4(0-1)-030716	3/7/16	1335	2	S		X	X	X	X	X					
19		VL53-5(0-1)-030716	3/7/16	1352	2	S		X	X	X	X	X					
20		RS2-1(0-1)-030716	3/7/16	1405	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHT	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/16/2016

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: 500-108439-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 4:32:40 PM

Richard Wright, Senior Project Manager
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Client Sample ID: R52-2(0-1)-030716
Date Collected: 03/07/16 14:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-1
Matrix: Solid
Percent Solids: 89.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 03:24	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 03:24	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/09/16 03:24	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:24	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:24	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:24	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 03:24	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:24	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/09/16 03:24	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:24	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:24	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:24	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:24	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/09/16 03:24	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:24	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 03:24	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:24	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 03:24	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 03:24	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 03:24	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 03:24	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 03:24	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:24	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:24	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:24	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:24	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/09/16 03:24	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 03:24	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/09/16 03:24	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 03:24	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 03:24	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:24	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:24	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 03:24	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:24	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 03:24*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/09/16 03:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/09/16 03:24*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/09/16 03:24*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1

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Matrix: Solid
Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2,4-Dimethylphenol	<350	*	350	130	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Acenaphthylene	**7.8**	**J**	35	4.7	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Anthracene	**8.0**	**J**	35	5.9	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Benzo[a]anthracene	**64**		35	4.8	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Benzo[a]pyrene	**90**	*	35	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Benzo[b]fluoranthene	**140**	*	35	7.6	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Benzo[g,h,i]perylene	<35	*	35	11	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Benzo[k]fluoranthene	**64**	*	35	10	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Carbazole	<180		180	88	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Chrysene	**82**		35	9.6	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Fluoranthene	**110**		35	6.5	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1

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Matrix: Solid
Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**51**	*	35	9.2	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Isophorone	<180		180	40	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Phenanthrene	**43**		35	4.9	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Phenol	<180		180	78	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1
Pyrene	**190**		35	7.0	ug/Kg	☼	03/10/16 07:07	03/11/16 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*35 - 137*	*03/10/16 07:07*	*03/11/16 15:49*	*1*
2-Fluorobiphenyl	*80*		*25 - 119*	*03/10/16 07:07*	*03/11/16 15:49*	*1*
2-Fluorophenol	*83*		*25 - 110*	*03/10/16 07:07*	*03/11/16 15:49*	*1*
Nitrobenzene-d5	*79*		*25 - 115*	*03/10/16 07:07*	*03/11/16 15:49*	*1*
Phenol-d5	*85*		*31 - 110*	*03/10/16 07:07*	*03/11/16 15:49*	*1*
Terphenyl-d14	*156*	*X*	*36 - 134*	*03/10/16 07:07*	*03/11/16 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		03/12/16 12:23	03/12/16 23:22	1
Barium	**0.20**	**J**	0.50	0.050	mg/L		03/12/16 12:23	03/12/16 23:22	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/12/16 23:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/12/16 23:22	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:22	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:22	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:22	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/12/16 23:22	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/12/16 23:22	1
Manganese	**1.4**		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:22	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:22	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/12/16 23:22	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:22	1
Zinc	**1.7**	**B**	0.50	0.020	mg/L		03/12/16 12:23	03/12/16 23:22	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:29	03/13/16 16:34	1
Barium	**0.077**	**J**	0.50	0.050	mg/L		03/12/16 12:29	03/13/16 16:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 16:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 16:34	1
Chromium	**0.019**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:34	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:34	1
Copper	**0.011**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:34	1
Iron	**16**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 16:34	1
Lead	**0.026**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 16:34	1
Manganese	**0.38**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:34	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 16:34	1

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Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:34	1
Zinc	**0.087**	**J B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 16:34	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.41**	**J F1**	0.89	0.19	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Arsenic	**1.9**		0.45	0.21	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Barium	**22**		0.45	0.082	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Beryllium	**0.19**		0.18	0.039	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Cadmium	**0.061**	**J**	0.089	0.026	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Calcium	**49000**	**B**	89	29	mg/Kg	☼	03/10/16 10:00	03/10/16 19:53	10
Chromium	**10**	**B**	2.2	0.077	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Cobalt	**2.7**		0.22	0.050	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Copper	**5.6**		0.45	0.097	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Iron	**5400**		11	4.2	mg/Kg	☼	03/15/16 15:25	03/16/16 11:12	1
Lead	**39**	**F2**	0.22	0.11	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Magnesium	**27000**	**B**	4.5	1.8	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Manganese	**230**	**B**	0.45	0.088	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Nickel	**6.0**	**B**	2.2	0.12	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Potassium	**520**	**F1**	22	3.6	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Selenium	<0.45		0.45	0.22	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Sodium	**290**		45	5.9	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Vanadium	**8.7**		0.22	0.065	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1
Zinc	**39**		0.89	0.28	mg/Kg	☼	03/10/16 10:00	03/10/16 16:06	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:17	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**20**		16	8.5	ug/Kg	☼	03/10/16 19:30	03/13/16 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.77**		0.200	0.200	SU			03/09/16 21:04	1

Client Sample ID: R52-2(0-1)-030716D
Date Collected: 03/07/16 14:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-2
Matrix: Solid
Percent Solids: 89.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 03:50	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 03:50	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/09/16 03:50	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:50	1
Bromomethane	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:50	1
Carbon disulfide	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:50	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 03:50	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:50	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/09/16 03:50	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:50	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:50	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:50	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:50	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/09/16 03:50	1
1,1-Dichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:50	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 03:50	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:50	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 03:50	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 03:50	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 03:50	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 03:50	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 03:50	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 03:50	1
methyl isobutyl ketone	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:50	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:50	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:50	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.88	ug/Kg	☼		03/09/16 03:50	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 03:50	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/09/16 03:50	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 03:50	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 03:50	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:50	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 03:50	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 03:50	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 03:50	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 03:50*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/09/16 03:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/09/16 03:50*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/09/16 03:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
1,2-Dichlorobenzene	<170		170	42	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
1,4-Dichlorobenzene	<170		170	45	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1

Client Sample ID: R52-2(0-1)-030716D
Date Collected: 03/07/16 14:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-2
Matrix: Solid
Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	79	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2,4-Dimethylphenol	<350	*	350	130	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2-Methylnaphthalene	**7.8**	**J**	35	6.4	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
3,3'-Dichlorobenzidine	<170	*	170	49	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
4-Chlorophenyl phenyl ether	<170		170	41	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Acenaphthene	<35		35	6.2	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Acenaphthylene	**10**	**J**	35	4.6	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Anthracene	**13**	**J**	35	5.8	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Benzo[a]anthracene	**83**	*****	35	4.7	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Benzo[a]pyrene	**110**	*****	35	6.7	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Benzo[b]fluoranthene	**190**	*****	35	7.5	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Benzo[g,h,i]perylene	**64**	*****	35	11	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Benzo[k]fluoranthene	**75**	*****	35	10	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Bis(2-ethylhexyl) phthalate	<170	*	170	64	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Carbazole	<170		170	87	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Chrysene	**99**	*****	35	9.5	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Dibenz(a,h)anthracene	<35	*	35	6.7	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Fluoranthene	**120**		35	6.4	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Hexachlorobutadiene	<170		170	55	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1

Client Sample ID: R52-2(0-1)-030716D
Date Collected: 03/07/16 14:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-2
Matrix: Solid
Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**62**	*	35	9.0	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Isophorone	<170		170	39	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Naphthalene	<35		35	5.3	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Phenanthrene	**130**		35	4.8	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Phenol	<170		170	77	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1
Pyrene	**250**	*	35	6.9	ug/Kg	☼	03/10/16 07:07	03/11/16 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*35 - 137*	*03/10/16 07:07*	*03/11/16 16:40*	*1*
2-Fluorobiphenyl	*83*		*25 - 119*	*03/10/16 07:07*	*03/11/16 16:40*	*1*
2-Fluorophenol	*88*		*25 - 110*	*03/10/16 07:07*	*03/11/16 16:40*	*1*
Nitrobenzene-d5	*78*		*25 - 115*	*03/10/16 07:07*	*03/11/16 16:40*	*1*
Phenol-d5	*85*		*31 - 110*	*03/10/16 07:07*	*03/11/16 16:40*	*1*
Terphenyl-d14	*173*	*X *	*36 - 134*	*03/10/16 07:07*	*03/11/16 16:40*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:23	03/12/16 23:27	1
Barium	**0.22**	**J**	0.50	0.050	mg/L		03/12/16 12:23	03/12/16 23:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/12/16 23:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/12/16 23:27	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:27	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:27	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/12/16 23:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/12/16 23:27	1
Manganese	**1.5**		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:27	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/12/16 23:27	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:27	1
Zinc	**1.9**	**B**	0.50	0.020	mg/L		03/12/16 12:23	03/12/16 23:27	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	**J**	0.050	0.010	mg/L		03/12/16 12:29	03/13/16 16:41	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		03/12/16 12:29	03/13/16 16:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 16:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 16:41	1
Chromium	**0.036**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:41	1
Copper	**0.021**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:41	1
Iron	**30**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 16:41	1
Lead	**0.052**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 16:41	1
Manganese	**0.71**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:41	1
Nickel	**0.027**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 16:41	1

Client Sample ID: R52-2(0-1)-030716D
Date Collected: 03/07/16 14:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-2
Matrix: Solid
Percent Solids: 89.8

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 16:41	1
Zinc	**0.15**	**J B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 16:41	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.49**	**J**	1.1	0.23	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Arsenic	**2.4**		0.55	0.25	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Barium	**24**		0.55	0.10	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Beryllium	**0.19**	**J**	0.22	0.047	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Cadmium	**0.058**	**J**	0.11	0.032	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Calcium	**30000**	**B**	11	3.5	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Chromium	**17**	**B**	2.7	0.094	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Cobalt	**3.2**		0.27	0.062	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Copper	**5.3**		0.55	0.12	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Iron	**6400**		10	4.0	mg/Kg	☼	03/15/16 15:25	03/16/16 11:17	1
Lead	**61**		0.27	0.14	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Magnesium	**19000**	**B**	5.5	2.2	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Manganese	**240**	**B**	0.55	0.11	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Nickel	**7.1**	**B**	2.7	0.15	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Potassium	**560**		27	4.5	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Selenium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Silver	<0.27		0.27	0.064	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Sodium	**280**		55	7.2	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Vanadium	**9.7**		0.27	0.080	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1
Zinc	**32**		1.1	0.35	mg/Kg	☼	03/10/16 10:00	03/10/16 16:39	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:19	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**	**J**	19	9.7	ug/Kg	☼	03/10/16 19:30	03/13/16 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.76**		0.200	0.200	SU			03/09/16 21:08	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Client Sample ID: R52-3(0-1)-030716
Date Collected: 03/07/16 14:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-3
Matrix: Solid
Percent Solids: 86.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 04:17	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 04:17	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/09/16 04:17	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 04:17	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 04:17	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 04:17	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 04:17	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 04:17	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/09/16 04:17	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 04:17	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 04:17	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 04:17	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 04:17	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/09/16 04:17	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 04:17	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/09/16 04:17	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 04:17	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/09/16 04:17	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 04:17	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 04:17	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/09/16 04:17	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/09/16 04:17	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 04:17	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 04:17	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 04:17	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 04:17	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/09/16 04:17	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 04:17	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 04:17	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 04:17	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 04:17	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 04:17	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 04:17	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 04:17	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 04:17	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/09/16 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/09/16 04:17*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/09/16 04:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/09/16 04:17*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/09/16 04:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1

Client Sample ID: R52-3(0-1)-030716
Date Collected: 03/07/16 14:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-3
Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2,4-Dimethylphenol	<380	*	380	140	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Acenaphthene	**26**	**J**	38	6.8	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Acenaphthylene	**65**		38	5.0	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Anthracene	**63**		38	6.3	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Benzo[a]anthracene	**180**	*	38	5.1	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Benzo[a]pyrene	**180**	*	38	7.3	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Benzo[b]fluoranthene	**300**	*	38	8.2	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Benzo[g,h,i]perylene	**87**	*	38	12	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Benzo[k]fluoranthene	**140**	*	38	11	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Bis(2-ethylhexyl) phthalate	<190	*	190	69	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Butyl benzyl phthalate	<190	*	190	72	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Carbazole	<190		190	95	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Chrysene	**230**	*	38	10	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Dibenz(a,h)anthracene	<38	*	38	7.3	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Fluoranthene	**400**		38	7.0	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Fluorene	**35**	**J**	38	5.3	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1

Client Sample ID: R52-3(0-1)-030716
Date Collected: 03/07/16 14:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-3
Matrix: Solid
Percent Solids: 86.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**95**	*	38	9.8	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Isophorone	<190		190	43	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Phenanthrene	**410**		38	5.3	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Phenol	<190		190	84	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1
Pyrene	**890**	*	38	7.5	ug/Kg	☼	03/10/16 07:07	03/11/16 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*33*	*X*	*35 - 137*	*03/10/16 07:07*	*03/11/16 17:06*	*1*
2-Fluorobiphenyl	*74*		*25 - 119*	*03/10/16 07:07*	*03/11/16 17:06*	*1*
2-Fluorophenol	*81*		*25 - 110*	*03/10/16 07:07*	*03/11/16 17:06*	*1*
Nitrobenzene-d5	*76*		*25 - 115*	*03/10/16 07:07*	*03/11/16 17:06*	*1*
Phenol-d5	*79*		*31 - 110*	*03/10/16 07:07*	*03/11/16 17:06*	*1*
Terphenyl-d14	*166*	*X *	*36 - 134*	*03/10/16 07:07*	*03/11/16 17:06*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:23	03/12/16 23:32	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		03/12/16 12:23	03/12/16 23:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:23	03/12/16 23:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:23	03/12/16 23:32	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:32	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:32	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:32	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:23	03/12/16 23:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:23	03/12/16 23:32	1
Manganese	**0.50**		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:23	03/12/16 23:32	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:23	03/12/16 23:32	1
Zinc	**0.32**	**J B**	0.50	0.020	mg/L		03/12/16 12:23	03/12/16 23:32	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:29	03/13/16 17:03	1
Barium	**0.097**	**J**	0.50	0.050	mg/L		03/12/16 12:29	03/13/16 17:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:29	03/13/16 17:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:29	03/13/16 17:03	1
Chromium	**0.021**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:03	1
Copper	**0.015**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:03	1
Iron	**25**		0.40	0.20	mg/L		03/12/16 12:29	03/13/16 17:03	1
Lead	**0.016**		0.0075	0.0075	mg/L		03/12/16 12:29	03/13/16 17:03	1
Manganese	**0.32**		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:03	1
Nickel	**0.018**	**J**	0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:29	03/13/16 17:03	1

Client Sample ID: R52-3(0-1)-030716

Date Collected: 03/07/16 14:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108439-3

Matrix: Solid
Percent Solids: 86.5

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:29	03/13/16 17:03	1
Zinc	**0.54**	**B**	0.50	0.020	mg/L		03/12/16 12:29	03/13/16 17:03	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Arsenic	**4.3**		0.48	0.22	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Barium	**40**		0.48	0.087	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Beryllium	**0.35**		0.19	0.041	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Cadmium	**0.087**	**J**	0.096	0.028	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Calcium	**12000**	**B**	9.6	3.1	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Chromium	**10**	**B**	2.4	0.082	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Cobalt	**5.5**		0.24	0.054	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Copper	**7.3**		0.48	0.10	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Iron	**10000**		11	4.1	mg/Kg	☼	03/15/16 15:25	03/16/16 11:23	1
Lead	**20**		0.24	0.12	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Magnesium	**7800**	**B**	4.8	1.9	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Manganese	**370**	**B**	0.48	0.095	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Nickel	**11**	**B**	2.4	0.13	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Potassium	**740**		24	3.9	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Selenium	**0.47**	**J**	0.48	0.24	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Sodium	**340**		48	6.3	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Vanadium	**13**		0.24	0.070	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1
Zinc	**45**		0.96	0.30	mg/Kg	☼	03/10/16 10:00	03/10/16 16:44	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/14/16 12:28	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 18:00	03/15/16 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**24**		19	10	ug/Kg	☼	03/10/16 19:30	03/13/16 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.74**		0.200	0.200	SU			03/09/16 21:12	1

Qualifiers

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.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108439-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL (
Phone: 708.534.5200 Fax: 708.5

500-108439 COC

(optional)

Report To
Contact: S. Babasubkumar
Company: Weston Solutions
Address: 300 plaza cir, ste 201
Address: Middlesex, JC 08060
Phone: 224-806-4-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108439

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 3.1/2.4

Client: Weston
Client Project #:
Project Name: FDOT 034
Project Location/State: Wilmington, NC
Lab Project #:
Sampler: A. Tuckaset
Lab PM: Dick Weight

Preservative
Parameter

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP metals	PAH	Comments
1		RS2-2(0-1)-030716	3/7/16	1420	2	S	X	X	X	X	X	
2		RS2-2(0-1)-030716D	3/7/16	1420	2	S	X	X	X	X	X	
3		RS2-3(0-1)-030716	3/7/16	1435	2	S	X	X	X	X	X	
4		AL48-4(0-1)-030716	3/7/16	1450	2	S	X	X	X	X	X	
5		AL47-1(0-1)-030716	3/7/16	1500	2	S	X	X	X	X	X	
6		RUM-1(0-1)-030716	3/7/16	1510	2	S	X	X	X	X	X	
7		RUM-2(0-1)-030716	3/7/16	1516	2	S	X	X	X	X	X	
8		RS5-1(0-1)-030716	3/7/16	1525	2	S	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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1558		TA	3/7/16	1558
	TA	3/7/16	1635		TA-CHE	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

21000 block of IL 102 (ISGS Site No. 2946-53)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.265376111 (Decimal Degrees) Longitude: -88.117513201 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.265376111 Longitude: -88.117513201

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 VL53-3 THROUGH VL53-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-53. SEE FIGURE 3-4 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108438-1.
ALSO SEE FIGURE 4-4 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-53
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL53-3(0-1)-030716	VL53-4(0-1)-030716	VL53-5(0-1)-030716	Soil Reference Concentrations[A]
Sample Date	3/7/2016	3/7/2016	3/7/2016	
Location ID	VL53-3	VL53-4	VL53-5	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-53	2946-53	2946-53	
Parameter				
Laboratory pH (s.u.)	7.62	7.41	7.32	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
2-Methylnaphthalene	12 J	8.7 J	ND	---
Acenaphthene	11 J	10 J	ND	570000
Acenaphthylene	86	48	10 J	---
Anthracene	65	60	9.9 J	1.20E+07
Benzo(a)anthracene	360 *	290 J	78 J	900 / 1100 / 1800
Benzo(a)pyrene	440 *	340 J	100 J	90 / 1300 / 2100
Benzo(b)fluoranthene	830 *	590 J	170 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	250 *	380 J	ND	---
Benzo(k)fluoranthene	280 *	220 J	69 J	9000
bis(2-Ethylhexyl)phthalate	100 J	250 J	200 J	46000
Chrysene	430 *	360 J	94 J	88000
Dibenzo(a,h)anthracene	57 *	ND	ND	90 / 200 / 420
Di-N-Butyl phthalate	77 J	ND	ND	2300000
Fluoranthene	630	370	100	3100000
Fluorene	16 J	12 J	ND	560000
Indeno(1,2,3-cd)pyrene	260 *	300 J	ND	900 / 900 / 1600
Naphthalene, SVOC	10 J	8.5 J	ND	1800
Phenanthrene	240	220	42	---
Pyrene	1200 *	960 J	240 J	2300000
Total Metals (mg/kg)				
Antimony, Total	0.34 J	ND	0.31 J	5
Arsenic, Total	2.1	3.1	2.9	11.3 / 13
Barium, Total	38	33	38	1500
Beryllium, Total	0.21	0.25	0.21 J	22
Cadmium, Total	0.34	0.22	0.19	5.2
Calcium, Total	130000 B	71000 B	28000 B	---
Chromium, Total	17 B	16 B	8.9 B	21
Cobalt, Total	3.3	3.6	6.6	20
Copper, Total	10	9.3	7.6	2900
Iron, Total	6000 B	8300 B	6600 B	15000 / 15900
Lead, Total	110	93	42	107
Magnesium, Total	78000	30000	18000	325000
Manganese, Total	330 B	310 B	510 B	630 / 636
Mercury, Total	0.02	0.025	0.015 J	0.89
Nickel, Total	7.8 B	8.7 B	8.4 B	100
Potassium, Total	620	630	480	---
Silver, Total	ND	ND	0.35	4.4
Sodium, Total	660	550	300	---
Vanadium, Total	7.6	9.6	9.2	550
Zinc, Total	94	66	40	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.21 J	0.23 J	0.18 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	0.0026 J	0.0024 J	0.0023 J	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.32	0.27	0.68	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Silver, TCLP	ND	ND	ND	0.05
Zinc, TCLP	0.25 J	ND	ND	5

Summary Table of ISGS Site No. 2946-53
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL53-3(0-1)-030716	VL53-4(0-1)-030716	VL53-5(0-1)-030716	Soil Reference Concentrations[A]
Sample Date	3/7/2016	3/7/2016	3/7/2016	
Location ID	VL53-3	VL53-4	VL53-5	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-53	2946-53	2946-53	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	ND	ND	0.012 J	0.05
Barium, SPLP	0.055 J	0.12 J	0.13 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.014 J	0.031	0.026	0.1
Cobalt, SPLP	ND	ND	ND	1
Copper, SPLP	0.01 J	0.026	0.035	0.65
Iron, SPLP	7 J+	27 J+	26 J+	5
Lead, SPLP	0.083	0.094	0.053	0.0075
Manganese, SPLP	0.19	0.41	0.54	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	ND	0.021 J	0.03	0.1
Silver, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.12 J	0.15 J	0.16 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

* - Laboratory control standard or its duplicate is outside of acceptance limits.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108438-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 11:25:45 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: VL53-3(0-1)-030716
Date Collected: 03/07/16 13:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-17
Matrix: Solid
Percent Solids: 83.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 19:20	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/09/16 19:20	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/09/16 19:20	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 19:20	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/09/16 19:20	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/09/16 19:20	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/09/16 19:20	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 19:20	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/09/16 19:20	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 19:20	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 19:20	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 19:20	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 19:20	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/09/16 19:20	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 19:20	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/09/16 19:20	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/09/16 19:20	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/09/16 19:20	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/09/16 19:20	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/09/16 19:20	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/09/16 19:20	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/09/16 19:20	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/09/16 19:20	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 19:20	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 19:20	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 19:20	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/09/16 19:20	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 19:20	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/09/16 19:20	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/09/16 19:20	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/09/16 19:20	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 19:20	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 19:20	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/09/16 19:20	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 19:20	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/09/16 19:20*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/09/16 19:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*03/09/16 19:20*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/09/16 19:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1

Client Sample ID: VL53-3(0-1)-030716
Date Collected: 03/07/16 13:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-17
Matrix: Solid
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	90	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2-Methylnaphthalene	**12**	**J**	39	7.2	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
4,6-Dinitro-2-methylphenol	<790		790	320	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Acenaphthene	**11**	**J**	39	7.1	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Acenaphthylene	**86**		39	5.2	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Anthracene	**65**		39	6.6	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Benzo[a]anthracene	**360**	*****	39	5.3	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Benzo[a]pyrene	**440**	*****	39	7.6	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Benzo[b]fluoranthene	**830**	*****	39	8.5	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Benzo[g,h,i]perylene	**250**	*****	39	13	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Benzo[k]fluoranthene	**280**	*****	39	12	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Bis(2-ethylhexyl) phthalate	**100**	**J ***	200	72	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Butyl benzyl phthalate	<200	*	200	75	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Carbazole	<200		200	98	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Chrysene	**430**	*****	39	11	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Dibenz(a,h)anthracene	**57**	*****	39	7.6	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Di-n-butyl phthalate	**77**	**J**	200	60	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Fluoranthene	**630**		39	7.3	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Fluorene	**16**	**J**	39	5.5	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1

Client Sample ID: VL53-3(0-1)-030716
Date Collected: 03/07/16 13:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-17
Matrix: Solid
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	**260**	*	39	10	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Isophorone	<200		200	44	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Naphthalene	**10**	J	39	6.1	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Phenanthrene	**240**		39	5.5	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Phenol	<200		200	87	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1
Pyrene	**1200**	*	39	7.8	ug/Kg	☼	03/09/16 07:22	03/12/16 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*35 - 137*	*03/09/16 07:22*	*03/12/16 05:03*	*1*
2-Fluorobiphenyl	*78*		*25 - 119*	*03/09/16 07:22*	*03/12/16 05:03*	*1*
2-Fluorophenol	*91*		*25 - 110*	*03/09/16 07:22*	*03/12/16 05:03*	*1*
Nitrobenzene-d5	*70*		*25 - 115*	*03/09/16 07:22*	*03/12/16 05:03*	*1*
Phenol-d5	*91*		*31 - 110*	*03/09/16 07:22*	*03/12/16 05:03*	*1*
Terphenyl-d14	*185*	*X	*36 - 134*	*03/09/16 07:22*	*03/12/16 05:03*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/14/16 15:02	1
Barium	**0.21**	J	0.50	0.050	mg/L		03/12/16 12:32	03/14/16 15:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/14/16 15:02	1
Cadmium	**0.0026**	J	0.0050	0.0020	mg/L		03/12/16 12:32	03/14/16 15:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:02	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:02	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/14/16 15:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/14/16 15:02	1
Manganese	**0.32**		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/14/16 15:02	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:02	1
Zinc	**0.25**	J B ^	0.50	0.020	mg/L		03/12/16 12:32	03/14/16 15:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:37	03/13/16 11:32	1
Barium	**0.055**	J	0.50	0.050	mg/L		03/12/16 12:37	03/14/16 15:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/14/16 15:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 11:32	1
Chromium	**0.014**	J	0.025	0.010	mg/L		03/12/16 12:37	03/14/16 15:38	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:32	1
Copper	**0.010**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:32	1
Iron	**7.0**		0.40	0.20	mg/L		03/12/16 12:37	03/14/16 15:38	1
Lead	**0.083**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 11:32	1
Manganese	**0.19**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:32	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 11:32	1

Client Sample ID: VL53-3(0-1)-030716
Date Collected: 03/07/16 13:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-17
Matrix: Solid
Percent Solids: 83.5

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:32	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 11:32	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.34**	**J**	0.93	0.19	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Arsenic	**2.1**		0.46	0.21	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Barium	**38**		0.46	0.085	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Beryllium	**0.21**		0.19	0.040	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Cadmium	**0.34**		0.093	0.027	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Calcium	**130000**	**B**	93	30	mg/Kg	☼	03/10/16 09:27	03/11/16 02:15	10
Chromium	**17**	**B**	0.46	0.080	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Cobalt	**3.3**		0.23	0.052	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Copper	**10**		0.46	0.10	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Iron	**6000**	**B**	9.3	3.6	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Lead	**110**		0.23	0.12	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Magnesium	**78000**		46	19	mg/Kg	☼	03/10/16 09:27	03/11/16 02:15	10
Manganese	**330**	**B**	0.46	0.092	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Nickel	**7.8**	**B**	0.46	0.13	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Potassium	**620**		23	3.8	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Selenium	<0.46		0.46	0.23	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Sodium	**660**		46	6.1	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Vanadium	**7.6**		0.23	0.068	mg/Kg	☼	03/10/16 09:27	03/11/16 00:15	1
Zinc	**94**		0.93	0.29	mg/Kg	☼	03/10/16 09:27	03/11/16 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		03/13/16 16:00	03/14/16 15:55	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:33	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**20**		18	9.5	ug/Kg	☼	03/10/16 19:30	03/13/16 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.62**		0.200	0.200	SU			03/09/16 20:40	1

Client Sample ID: VL53-4(0-1)-030716
Date Collected: 03/07/16 13:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-18
Matrix: Solid
Percent Solids: 84.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 19:45	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 19:45	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/09/16 19:45	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 19:45	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 19:45	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 19:45	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 19:45	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 19:45	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 19:45	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 19:45	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 19:45	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 19:45	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 19:45	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/09/16 19:45	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 19:45	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/09/16 19:45	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 19:45	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 19:45	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 19:45	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 19:45	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 19:45	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/09/16 19:45	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 19:45	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 19:45	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 19:45	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 19:45	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/09/16 19:45	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 19:45	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 19:45	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 19:45	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 19:45	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 19:45	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 19:45	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 19:45	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 19:45	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/09/16 19:45*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/09/16 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/09/16 19:45*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/09/16 19:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	42	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1

Client Sample ID: VL53-4(0-1)-030716
Date Collected: 03/07/16 13:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-18
Matrix: Solid
Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2-Methylnaphthalene	**8.7**	**J**	39	7.2	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
4,6-Dinitro-2-methylphenol	<790		790	310	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Acenaphthene	**10**	**J**	39	7.0	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Acenaphthylene	**48**		39	5.2	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Anthracene	**60**		39	6.5	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Benzo[a]anthracene	**290**	*	39	5.3	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Benzo[a]pyrene	**340**	*	39	7.6	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Benzo[b]fluoranthene	**590**	*	39	8.4	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Benzo[g,h,i]perylene	**380**	*	39	13	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Benzo[k]fluoranthene	**220**	*	39	12	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Bis(2-ethylhexyl) phthalate	**250**	*	200	72	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Butyl benzyl phthalate	<200	*	200	74	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Carbazole	<200		200	98	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Chrysene	**360**	*	39	11	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Dibenz(a,h)anthracene	<39	*	39	7.6	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Fluoranthene	**370**		39	7.3	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Fluorene	**12**	**J**	39	5.5	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1

Client Sample ID: VL53-4(0-1)-030716
Date Collected: 03/07/16 13:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-18
Matrix: Solid
Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**300**	*	39	10	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Isophorone	<200		200	44	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Naphthalene	**8.5**	J	39	6.0	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
N-Nitrosodi-n-propylamine	<79		79	48	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Phenanthrene	**220**		39	5.5	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Phenol	<200		200	87	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1
Pyrene	**960**	*	39	7.8	ug/Kg	☼	03/09/16 07:22	03/10/16 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*35 - 137*	*03/09/16 07:22*	*03/10/16 20:49*	*1*
2-Fluorobiphenyl	*91*		*25 - 119*	*03/09/16 07:22*	*03/10/16 20:49*	*1*
2-Fluorophenol	*87*		*25 - 110*	*03/09/16 07:22*	*03/10/16 20:49*	*1*
Nitrobenzene-d5	*85*		*25 - 115*	*03/09/16 07:22*	*03/10/16 20:49*	*1*
Phenol-d5	*68*		*31 - 110*	*03/09/16 07:22*	*03/10/16 20:49*	*1*
Terphenyl-d14	*226*	*X *	*36 - 134*	*03/09/16 07:22*	*03/10/16 20:49*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/14/16 15:07	1
Barium	**0.23**	J	0.50	0.050	mg/L		03/12/16 12:32	03/14/16 15:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/14/16 15:07	1
Cadmium	**0.0024**	J	0.0050	0.0020	mg/L		03/12/16 12:32	03/14/16 15:07	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:07	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:07	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:07	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/14/16 15:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/14/16 15:07	1
Manganese	**0.27**		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:07	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:07	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/14/16 15:07	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:07	1
Zinc	**0.12**	J B ^	0.50	0.020	mg/L		03/12/16 12:32	03/14/16 15:07	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:37	03/13/16 11:39	1
Barium	**0.12**	J	0.50	0.050	mg/L		03/12/16 12:37	03/14/16 15:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/14/16 15:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 11:39	1
Chromium	**0.031**		0.025	0.010	mg/L		03/12/16 12:37	03/14/16 15:42	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:39	1
Copper	**0.026**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:39	1
Iron	**27**		0.40	0.20	mg/L		03/12/16 12:37	03/14/16 15:42	1
Lead	**0.094**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 11:39	1
Manganese	**0.41**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:39	1
Nickel	**0.021**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:39	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 11:39	1

Client Sample ID: VL53-4(0-1)-030716
Date Collected: 03/07/16 13:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-18
Matrix: Solid
Percent Solids: 84.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:39	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 11:39	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Arsenic	**3.1**		0.50	0.23	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Barium	**33**		0.50	0.092	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Beryllium	**0.25**		0.20	0.043	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Cadmium	**0.22**		0.10	0.029	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Calcium	**71000**	**B**	100	32	mg/Kg	☼	03/10/16 09:27	03/11/16 02:19	10
Chromium	**16**	**B**	0.50	0.086	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Cobalt	**3.6**		0.25	0.057	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Copper	**9.3**		0.50	0.11	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Iron	**8300**	**B**	10	3.9	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Lead	**93**		0.25	0.12	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Magnesium	**30000**		5.0	2.0	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Manganese	**310**	**B**	0.50	0.099	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Nickel	**8.7**	**B**	0.50	0.14	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Potassium	**630**		25	4.1	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Selenium	<0.50		0.50	0.25	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Sodium	**550**		50	6.6	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Vanadium	**9.6**		0.25	0.073	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1
Zinc	**66**		1.0	0.32	mg/Kg	☼	03/10/16 09:27	03/11/16 00:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 16:09	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**25**		19	9.8	ug/Kg	☼	03/10/16 19:30	03/13/16 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.41**		0.200	0.200	SU			03/09/16 20:52	1

Client Sample ID: VL53-5(0-1)-030716
Date Collected: 03/07/16 13:52
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-19
Matrix: Solid
Percent Solids: 86.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/09/16 22:03	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 22:03	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/09/16 22:03	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 22:03	1
Bromomethane	<5.8	*	5.8	2.1	ug/Kg	☼		03/09/16 22:03	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 22:03	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 22:03	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 22:03	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/09/16 22:03	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 22:03	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 22:03	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 22:03	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 22:03	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/09/16 22:03	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 22:03	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		03/09/16 22:03	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/09/16 22:03	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/09/16 22:03	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 22:03	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 22:03	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/09/16 22:03	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/09/16 22:03	1
Methyl Ethyl Ketone	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 22:03	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 22:03	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 22:03	1
Styrene	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 22:03	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.91	ug/Kg	☼		03/09/16 22:03	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/09/16 22:03	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/09/16 22:03	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 22:03	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 22:03	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/09/16 22:03	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/09/16 22:03	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/09/16 22:03	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/09/16 22:03	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/09/16 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/09/16 22:03*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/09/16 22:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/09/16 22:03*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/09/16 22:03*	*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	☼	03/09/16 07:22	03/10/16 18:13	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1

Client Sample ID: VL53-5(0-1)-030716
Date Collected: 03/07/16 13:52
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-19
Matrix: Solid
Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Acenaphthylene	**10**	**J**	37	4.9	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Anthracene	**9.9**	**J**	37	6.3	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Benzo[a]anthracene	**78**	**	37	5.0	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Benzo[a]pyrene	**100**	**	37	7.3	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Benzo[b]fluoranthene	**170**	**	37	8.1	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Benzo[g,h,i]perylene	<37	*	37	12	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Benzo[k]fluoranthene	**69**	**	37	11	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Bis(2-ethylhexyl) phthalate	**200**	**	190	69	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Carbazole	<190		190	94	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Chrysene	**94**	**	37	10	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Fluoranthene	**100**		37	7.0	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Client Sample ID: VL53-5(0-1)-030716
Date Collected: 03/07/16 13:52
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-19
Matrix: Solid
Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.7	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Phenanthrene	**42**		37	5.2	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Phenol	<190		190	83	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1
Pyrene	**240**	*	37	7.5	ug/Kg	☼	03/09/16 07:22	03/10/16 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*35 - 137*	*03/09/16 07:22*	*03/10/16 18:13*	*1*
2-Fluorobiphenyl	*86*		*25 - 119*	*03/09/16 07:22*	*03/10/16 18:13*	*1*
2-Fluorophenol	*67*		*25 - 110*	*03/09/16 07:22*	*03/10/16 18:13*	*1*
Nitrobenzene-d5	*83*		*25 - 115*	*03/09/16 07:22*	*03/10/16 18:13*	*1*
Phenol-d5	*40*		*31 - 110*	*03/09/16 07:22*	*03/10/16 18:13*	*1*
Terphenyl-d14	*204*	*X *	*36 - 134*	*03/09/16 07:22*	*03/10/16 18:13*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/14/16 15:12	1
Barium	**0.18**	**J**	0.50	0.050	mg/L		03/12/16 12:32	03/14/16 15:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/14/16 15:12	1
Cadmium	**0.0023**	**J**	0.0050	0.0020	mg/L		03/12/16 12:32	03/14/16 15:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:12	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:12	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/14/16 15:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/14/16 15:12	1
Manganese	**0.68**		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/14/16 15:12	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/14/16 15:12	1
Zinc	**0.12**	**J B ^**	0.50	0.020	mg/L		03/12/16 12:32	03/14/16 15:12	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	**J**	0.050	0.010	mg/L		03/12/16 12:37	03/13/16 11:46	1
Barium	**0.13**	**J**	0.50	0.050	mg/L		03/12/16 12:37	03/14/16 15:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/14/16 15:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 11:46	1
Chromium	**0.026**		0.025	0.010	mg/L		03/12/16 12:37	03/14/16 15:46	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:46	1
Copper	**0.035**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:46	1
Iron	**26**		0.40	0.20	mg/L		03/12/16 12:37	03/14/16 15:46	1
Lead	**0.053**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 11:46	1
Manganese	**0.54**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:46	1
Nickel	**0.030**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:46	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 11:46	1

Client Sample ID: VL53-5(0-1)-030716
Date Collected: 03/07/16 13:52
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-19
Matrix: Solid
Percent Solids: 86.9

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 11:46	1
Zinc	**0.16**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 11:46	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.1	0.23	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Arsenic	**2.9**		0.56	0.26	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Barium	**38**		0.56	0.10	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Beryllium	**0.21**	**J**	0.22	0.048	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Cadmium	**0.19**		0.11	0.032	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Calcium	**28000**	**B**	11	3.6	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Chromium	**8.9**	**B**	0.54	0.092	mg/Kg	☼	03/11/16 15:54	03/12/16 20:27	1
Cobalt	**6.6**		0.28	0.063	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Copper	**7.6**		0.56	0.12	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Iron	**6600**	**B**	11	4.3	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Lead	**42**		0.28	0.14	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Magnesium	**18000**		5.6	2.3	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Manganese	**510**	**B**	0.56	0.11	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Nickel	**8.4**	**B**	0.56	0.15	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Potassium	**480**		28	4.5	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Silver	**0.35**		0.28	0.065	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Sodium	**300**		56	7.4	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Vanadium	**9.2**		0.28	0.081	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1
Zinc	**40**		1.1	0.35	mg/Kg	☼	03/10/16 09:27	03/11/16 00:25	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 16:11	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	18	9.4	ug/Kg	☼	03/10/16 19:30	03/13/16 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.32**		0.200	0.200	SU			03/09/16 20:56	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-108438 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.1, 2.4

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1		APS-2(0-1)-030716	3/7/16	0852	2	S		X	X	X	X	X					
2		APS-2(0-1)-030716 D	3/7/16	0852	2	S		X	X	X	X	X					
3		APS-3(0-1)-030716	3/7/16	0918	2	S		X	X	X	X	X					
4		APS-4(0-1)-030716	3/7/16	0935	2	S		X	X	X	X	X					
5		ALSS-1(0-1)-030716	3/7/16	0956	2	S		X	X	X	X	X					
6		ALSS-2(0-1)-030716	3/7/16	1007	2	S		X	X	X	X	X					
7		RS4-1(0-1)-030716	3/7/16	1020	2	S		X	X	X	X	X					
8		RS4-2(0-1)-030716	3/7/16	1030	2	S		X	X	X	X	X					
9		RS4-3(0-1)-030716	3/7/16	1050	2	S		X	X	X	X	X					
10		RS4-4(0-1)-030716	3/7/16	1110	2	S		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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHI	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Rick Weight

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	PID					Comments
11		AL48-1(0-1)-030716	3/7/16	1130	2	S		X	X	X	X	X					
12		AL48-1(0-1)-030716D	3/7/16	1130	2	S		X	X	X	X	X					
13		AL48-2(0-1)-030716	3/7/16	1144	2	S		X	X	X	X	X					
14		AL48-3(0-1)-030716	3/7/16	1200	2	S		X	X	X	X	X					
15		VL53-1(0-1)-030716	3/7/16	1215	2	S		X	X	X	X	X					
16		VL53-2(0-1)-030716	3/7/16	1310	2	S		X	X	X	X	X					
17		VL53-3(0-1)-030716	3/7/16	1320	2	S		X	X	X	X	X					
18		VL53-4(0-1)-030716	3/7/16	1335	2	S		X	X	X	X	X					
19		VL53-5(0-1)-030716	3/7/16	1352	2	S		X	X	X	X	X					
20		RS2-1(0-1)-030716	3/7/16	1405	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHT	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/16/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

33891 Rivals Road (ISGS Site No. 2946-54)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.270028567 (Decimal Degrees) Longitude: -88.123467665 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.270028567 Longitude: -88.123467665

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 R54-1, R54-3, AND R53-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-54. SEE FIGURE 3-3 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108438-1.
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional ~~Geologist~~ Signature:

25 APRIL 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-54
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R54-1(0-1)-030716	R54-3(0-1)-030716	R54-4(0-1)-030716	Soil Reference Concentrations[A]
Sample Date	3/7/2016	3/7/2016	3/7/2016	
Location ID	R54-1	R54-3	R54-4	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-54	2946-54	2946-54	
Parameter				
Laboratory pH (s.u.)	8.23	8.05	8.35	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Acenaphthylene	110	7 J	12 J	---
Anthracene	56	7.4 J	8.1 J	1.20E+07
Benzo(a)anthracene	330	33 J	40	900 / 1100 / 1800
Benzo(a)pyrene	520 J	47 J	55 J	90 / 1300 / 2100
Benzo(b)fluoranthene	870 J	88 J	96 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	290 J	32 J	39 J	---
Benzo(k)fluoranthene	320 J	31 J	34 J	9000
Chrysene	350	46	46	88000
Dibenzo(a,h)anthracene	56 J	ND	ND	90 / 200 / 420
Fluoranthene	540	66	69	3100000
Fluorene	12 J	ND	ND	560000
Indeno(1,2,3-cd)pyrene	290 J	21 J	27 J	900 / 900 / 1600
Naphthalene, SVOC	8.7 J	ND	ND	1800
Phenanthrene	130	24 J	26 J	---
Pyrene	700	96	120	2300000
Total Metals (mg/kg)				
Arsenic, Total	8.2	5.2	2.7	11.3 / 13
Barium, Total	110	48	42	1500
Beryllium, Total	0.64	0.36	0.29	22
Cadmium, Total	0.18	0.072 J	0.14	5.2
Calcium, Total	9600 B	12000 B	21000 B	---
Chromium, Total	17 B	ND	ND	21
Cobalt, Total	11	6.5	4.6	20
Copper, Total	16	9.5	7.4	2900
Iron, Total	18000 B	13000 B	7500 B	15000 / 15900
Lead, Total	43	25	40	107
Magnesium, Total	6500	7600	14000	325000
Manganese, Total	510 B	430 B	240 B	630 / 636
Mercury, Total	0.04	0.026	0.021	0.89
Nickel, Total	21 B	15 B	9.2 B	100
Potassium, Total	1300	940	530	---
Selenium, Total	0.62	0.25 J	ND	1.3
Sodium, Total	780	400	1200	---
Vanadium, Total	25	17	13	550
Zinc, Total	78	46	51	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.36 J	0.28 J	0.21 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.26	0.3	0.68	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	5

Summary Table of ISGS Site No. 2946-54
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R54-1(0-1)-030716	R54-3(0-1)-030716	R54-4(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	3/7/2016	3/7/2016	
Location ID	R54-1	R54-3	R54-4	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-54	2946-54	2946-54	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.046 J	0.019 J	0.021 J	0.05
Barium, SPLP	0.65	0.24 J	0.35 J	2
Beryllium, SPLP	0.005	ND	0.0042	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.12	0.052	0.11	0.1
Cobalt, SPLP	0.027	0.012 J	0.027	1
Copper, SPLP	0.094	0.04	0.07	0.65
Iron, SPLP	140 J+	60 J+	90 J+	5
Lead, SPLP	0.24	0.052	0.19	0.0075
Manganese, SPLP	1.2	0.65	0.81	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.091	0.045	0.078	0.1
Selenium, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.53	0.21 J	0.43 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108438-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 11:25:45 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: R54-1(0-1)-030716
Date Collected: 03/07/16 10:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-7
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/09/16 15:10	1
Benzene	<6.2		6.2	1.4	ug/Kg	☼		03/09/16 15:10	1
Bromodichloromethane	<6.2		6.2	1.0	ug/Kg	☼		03/09/16 15:10	1
Bromoform	<6.2		6.2	1.3	ug/Kg	☼		03/09/16 15:10	1
Bromomethane	<6.2		6.2	2.3	ug/Kg	☼		03/09/16 15:10	1
Carbon disulfide	<6.2		6.2	2.3	ug/Kg	☼		03/09/16 15:10	1
Carbon tetrachloride	<6.2		6.2	1.3	ug/Kg	☼		03/09/16 15:10	1
Chlorobenzene	<6.2		6.2	1.5	ug/Kg	☼		03/09/16 15:10	1
Chloroethane	<6.2		6.2	2.6	ug/Kg	☼		03/09/16 15:10	1
Chloroform	<6.2		6.2	1.2	ug/Kg	☼		03/09/16 15:10	1
Chloromethane	<6.2		6.2	1.5	ug/Kg	☼		03/09/16 15:10	1
cis-1,2-Dichloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/09/16 15:10	1
cis-1,3-Dichloropropene	<6.2		6.2	1.4	ug/Kg	☼		03/09/16 15:10	1
Dibromochloromethane	<6.2		6.2	0.71	ug/Kg	☼		03/09/16 15:10	1
1,1-Dichloroethane	<6.2		6.2	1.3	ug/Kg	☼		03/09/16 15:10	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		03/09/16 15:10	1
1,1-Dichloroethene	<6.2		6.2	2.2	ug/Kg	☼		03/09/16 15:10	1
1,2-Dichloropropane	<6.2		6.2	1.6	ug/Kg	☼		03/09/16 15:10	1
1,3-Dichloropropene, Total	<6.2		6.2	1.7	ug/Kg	☼		03/09/16 15:10	1
Ethylbenzene	<6.2		6.2	1.5	ug/Kg	☼		03/09/16 15:10	1
2-Hexanone	<6.2		6.2	1.9	ug/Kg	☼		03/09/16 15:10	1
Methylene Chloride	<6.2		6.2	4.7	ug/Kg	☼		03/09/16 15:10	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		03/09/16 15:10	1
methyl isobutyl ketone	<6.2		6.2	1.3	ug/Kg	☼		03/09/16 15:10	1
Methyl tert-butyl ether	<6.2		6.2	1.5	ug/Kg	☼		03/09/16 15:10	1
Styrene	<6.2		6.2	1.4	ug/Kg	☼		03/09/16 15:10	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	0.98	ug/Kg	☼		03/09/16 15:10	1
Tetrachloroethene	<6.2		6.2	1.3	ug/Kg	☼		03/09/16 15:10	1
Toluene	<6.2		6.2	2.1	ug/Kg	☼		03/09/16 15:10	1
trans-1,2-Dichloroethene	<6.2		6.2	1.5	ug/Kg	☼		03/09/16 15:10	1
trans-1,3-Dichloropropene	<6.2		6.2	1.7	ug/Kg	☼		03/09/16 15:10	1
1,1,1-Trichloroethane	<6.2		6.2	1.4	ug/Kg	☼		03/09/16 15:10	1
1,1,2-Trichloroethane	<6.2		6.2	1.2	ug/Kg	☼		03/09/16 15:10	1
Trichloroethene	<6.2		6.2	1.7	ug/Kg	☼		03/09/16 15:10	1
Vinyl chloride	<6.2		6.2	1.5	ug/Kg	☼		03/09/16 15:10	1
Xylenes, Total	<12		12	2.3	ug/Kg	☼		03/09/16 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/09/16 15:10*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/09/16 15:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*03/09/16 15:10*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/09/16 15:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1

Client Sample ID: R54-1(0-1)-030716
Date Collected: 03/07/16 10:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-7
Matrix: Solid
Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410	93	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2,4-Dimethylphenol	<410		410	150	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2-Methylphenol	<210		210	65	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
2-Nitrophenol	<410		410	96	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
3,3'-Dichlorobenzidine	<210		210	57	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
4,6-Dinitro-2-methylphenol	<820		820	330	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
4-Nitroaniline	<410		410	170	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Acenaphthene	<41		41	7.3	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Acenaphthylene	**110**		41	5.4	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Anthracene	**56**		41	6.8	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Benzo[a]anthracene	**330**		41	5.5	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Benzo[a]pyrene	**520**	*	41	7.9	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Benzo[b]fluoranthene	**870**	*	41	8.8	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Benzo[g,h,i]perylene	**290**	*	41	13	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Benzo[k]fluoranthene	**320**	*	41	12	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Carbazole	<210		210	100	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Chrysene	**350**		41	11	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Dibenz(a,h)anthracene	**56**	*	41	7.9	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Dibenzofuran	<210		210	48	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Fluoranthene	**540**		41	7.6	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Fluorene	**12**	J	41	5.7	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Hexachloroethane	<210		210	62	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1

Client Sample ID: R54-1(0-1)-030716
Date Collected: 03/07/16 10:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-7
Matrix: Solid
Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**290**	*	41	11	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Isophorone	<210		210	46	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Naphthalene	**8.7**	J	41	6.3	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Nitrobenzene	<41		41	10	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
N-Nitrosodi-n-propylamine	<82		82	50	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Phenanthrene	**130**		41	5.7	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Phenol	<210		210	91	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1
Pyrene	**700**		41	8.1	ug/Kg	☼	03/09/16 07:22	03/12/16 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*45*		*35 - 137*	*03/09/16 07:22*	*03/12/16 00:45*	*1*
2-Fluorobiphenyl	*73*		*25 - 119*	*03/09/16 07:22*	*03/12/16 00:45*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/09/16 07:22*	*03/12/16 00:45*	*1*
Nitrobenzene-d5	*69*		*25 - 115*	*03/09/16 07:22*	*03/12/16 00:45*	*1*
Phenol-d5	*81*		*31 - 110*	*03/09/16 07:22*	*03/12/16 00:45*	*1*
Terphenyl-d14	*133*		*36 - 134*	*03/09/16 07:22*	*03/12/16 00:45*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/13/16 00:55	1
Barium	**0.36**	J	0.50	0.050	mg/L		03/12/16 12:32	03/13/16 00:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/13/16 00:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:32	03/13/16 00:55	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:55	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:55	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:55	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/13/16 00:55	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/13/16 00:55	1
Manganese	**0.26**		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:55	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:55	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/13/16 00:55	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:55	1
Zinc	**0.035**	J B	0.50	0.020	mg/L		03/12/16 12:32	03/13/16 00:55	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.046**	J	0.050	0.010	mg/L		03/12/16 12:37	03/13/16 09:32	1
Barium	**0.65**		0.50	0.050	mg/L		03/12/16 12:37	03/13/16 09:32	1
Beryllium	**0.0050**		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 09:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 09:32	1
Chromium	**0.12**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:32	1
Cobalt	**0.027**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:32	1
Copper	**0.094**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:32	1
Iron	**140**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 09:32	1
Lead	**0.24**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 09:32	1
Manganese	**1.2**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:32	1
Nickel	**0.091**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:32	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 09:32	1

Client Sample ID: R54-1(0-1)-030716
Date Collected: 03/07/16 10:20
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-7
Matrix: Solid
Percent Solids: 81.2

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:32	1
Zinc	**0.53**		0.50	0.020	mg/L		03/12/16 12:37	03/13/16 09:32	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.25	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Arsenic	**8.2**		0.61	0.28	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Barium	**110**		0.61	0.11	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Beryllium	**0.64**		0.24	0.053	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Cadmium	**0.18**		0.12	0.035	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Calcium	**9600**	**B**	12	3.9	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Chromium	**17**	**B**	0.61	0.10	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Cobalt	**11**		0.30	0.069	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Copper	**16**		0.61	0.13	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Iron	**18000**	**B**	12	4.7	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Lead	**43**		0.30	0.15	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Magnesium	**6500**		6.1	2.5	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Manganese	**510**	**B**	0.61	0.12	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Nickel	**21**	**B**	0.61	0.16	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Potassium	**1300**		30	5.0	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Selenium	**0.62**		0.61	0.30	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Silver	<0.30		0.30	0.071	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Sodium	**780**		61	8.0	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Thallium	<0.61		0.61	0.30	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Vanadium	**25**		0.30	0.089	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1
Zinc	**78**		1.2	0.39	mg/Kg	☼	03/10/16 09:27	03/10/16 23:18	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**40**		18	9.3	ug/Kg	☼	03/10/16 19:30	03/13/16 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.23**		0.200	0.200	SU			03/09/16 20:01	1

Client Sample ID: R54-3(0-1)-030716
Date Collected: 03/07/16 10:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-9
Matrix: Solid
Percent Solids: 87.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/09/16 16:00	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:00	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/09/16 16:00	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:00	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 16:00	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 16:00	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:00	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:00	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/09/16 16:00	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 16:00	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:00	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:00	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:00	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/09/16 16:00	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:00	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/09/16 16:00	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/09/16 16:00	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/09/16 16:00	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 16:00	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:00	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/09/16 16:00	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/09/16 16:00	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 16:00	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:00	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:00	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:00	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/09/16 16:00	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/09/16 16:00	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/09/16 16:00	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:00	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 16:00	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/09/16 16:00	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/09/16 16:00	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/09/16 16:00	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/09/16 16:00	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/09/16 16:00*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*03/09/16 16:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 134*		*03/09/16 16:00*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/09/16 16:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1

Client Sample ID: R54-3(0-1)-030716
Date Collected: 03/07/16 10:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-9
Matrix: Solid
Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	86	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2,4-Dinitrophenol	<760		760	660	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Acenaphthylene	**7.0**	**J**	37	4.9	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Anthracene	**7.4**	**J**	37	6.3	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Benzo[a]anthracene	**33**	**J**	37	5.0	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Benzo[a]pyrene	**47**	*****	37	7.3	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Benzo[b]fluoranthene	**88**	*****	37	8.1	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Benzo[g,h,i]perylene	**32**	**J ***	37	12	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Benzo[k]fluoranthene	**31**	**J ***	37	11	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Carbazole	<190		190	94	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Chrysene	**46**		37	10	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Fluoranthene	**66**		37	6.9	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Fluorene	<37		37	5.3	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1

Client Sample ID: R54-3(0-1)-030716
Date Collected: 03/07/16 10:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-9
Matrix: Solid
Percent Solids: 87.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**21**	**J ***	37	9.7	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Naphthalene	<37		37	5.8	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Phenanthrene	**24**	**J**	37	5.2	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Phenol	<190		190	83	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1
Pyrene	**96**		37	7.4	ug/Kg	☼	03/09/16 07:22	03/12/16 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*52*		*35 - 137*	*03/09/16 07:22*	*03/12/16 01:42*	*1*
2-Fluorobiphenyl	*76*		*25 - 119*	*03/09/16 07:22*	*03/12/16 01:42*	*1*
2-Fluorophenol	*87*		*25 - 110*	*03/09/16 07:22*	*03/12/16 01:42*	*1*
Nitrobenzene-d5	*72*		*25 - 115*	*03/09/16 07:22*	*03/12/16 01:42*	*1*
Phenol-d5	*83*		*31 - 110*	*03/09/16 07:22*	*03/12/16 01:42*	*1*
Terphenyl-d14	*139*	*X*	*36 - 134*	*03/09/16 07:22*	*03/12/16 01:42*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/13/16 01:09	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		03/12/16 12:32	03/13/16 01:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/13/16 01:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:32	03/13/16 01:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:09	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:09	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/13/16 01:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/13/16 01:09	1
Manganese	**0.30**		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:09	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/13/16 01:09	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:09	1
Zinc	**0.030**	**J B**	0.50	0.020	mg/L		03/12/16 12:32	03/13/16 01:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.019**	**J**	0.050	0.010	mg/L		03/12/16 12:37	03/13/16 10:02	1
Barium	**0.24**	**J**	0.50	0.050	mg/L		03/12/16 12:37	03/13/16 10:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 10:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 10:02	1
Chromium	**0.052**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:02	1
Cobalt	**0.012**	**J**	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:02	1
Copper	**0.040**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:02	1
Iron	**60**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 10:02	1
Lead	**0.052**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 10:02	1
Manganese	**0.65**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:02	1
Nickel	**0.045**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 10:02	1

Client Sample ID: R54-3(0-1)-030716
Date Collected: 03/07/16 10:50
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-9
Matrix: Solid
Percent Solids: 87.1

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:02	1
Zinc	**0.21**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 10:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.86		0.86	0.18	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Arsenic	**5.2**		0.43	0.20	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Barium	**48**		0.43	0.079	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Beryllium	**0.36**		0.17	0.037	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Cadmium	**0.072**	**J**	0.086	0.025	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Calcium	**12000**	**B**	8.6	2.8	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Chromium	**12**	**B**	0.43	0.074	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Cobalt	**6.5**		0.21	0.049	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Copper	**9.5**		0.43	0.093	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Iron	**13000**	**B**	8.6	3.3	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Lead	**25**		0.21	0.11	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Magnesium	**7600**		4.3	1.7	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Manganese	**430**	**B**	0.43	0.085	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Nickel	**15**	**B**	0.43	0.12	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Potassium	**940**		21	3.5	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Selenium	**0.25**	**J**	0.43	0.21	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Silver	<0.21		0.21	0.050	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Sodium	**400**		43	5.7	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Thallium	<0.43		0.43	0.21	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Vanadium	**17**		0.21	0.063	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1
Zinc	**46**		0.86	0.27	mg/Kg	☼	03/10/16 09:27	03/10/16 23:28	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**26**		19	10	ug/Kg	☼	03/10/16 19:30	03/13/16 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.05**		0.200	0.200	SU			03/09/16 20:08	1

Client Sample ID: R54-4(0-1)-030716
Date Collected: 03/07/16 11:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-10
Matrix: Solid
Percent Solids: 89.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.4	ug/Kg	☼		03/09/16 16:25	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:25	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/09/16 16:25	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:25	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 16:25	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 16:25	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:25	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:25	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/09/16 16:25	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:25	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:25	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:25	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:25	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/09/16 16:25	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:25	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 16:25	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:25	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 16:25	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 16:25	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 16:25	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 16:25	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 16:25	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:25	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:25	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:25	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:25	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/09/16 16:25	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 16:25	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 16:25	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 16:25	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 16:25	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:25	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 16:25	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 16:25	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 16:25	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/09/16 16:25*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*03/09/16 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*03/09/16 16:25*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/09/16 16:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1

Client Sample ID: R54-4(0-1)-030716
Date Collected: 03/07/16 11:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-10
Matrix: Solid
Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
3,3'-Dichlorobenzidine	<180		180	50	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Acenaphthene	<35		35	6.4	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Acenaphthylene	**12**	**J**	35	4.7	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Anthracene	**8.1**	**J**	35	5.9	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Benzo[a]anthracene	**40**		35	4.8	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Benzo[a]pyrene	**55**	*	35	6.9	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Benzo[b]fluoranthene	**96**	*	35	7.7	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Benzo[g,h,i]perylene	**39**	*	35	11	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Benzo[k]fluoranthene	**34**	**J** *	35	10	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Bis(2-ethylhexyl) phthalate	<180		180	65	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Butyl benzyl phthalate	<180		180	68	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Carbazole	<180		180	89	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Chrysene	**46**		35	9.7	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Dibenz(a,h)anthracene	<35	*	35	6.9	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Fluoranthene	**69**		35	6.6	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Hexachlorobenzene	<72		72	8.2	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Hexachlorocyclopentadiene	<720		720	200	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1

Client Sample ID: R54-4(0-1)-030716
Date Collected: 03/07/16 11:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-10
Matrix: Solid
Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**27**	**J ***	35	9.2	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Isophorone	<180		180	40	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
N-Nitrosodi-n-propylamine	<72		72	43	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Phenanthrene	**26**	**J**	35	5.0	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Phenol	<180		180	79	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1
Pyrene	**120**		35	7.1	ug/Kg	☼	03/09/16 07:22	03/12/16 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*35 - 137*	*03/09/16 07:22*	*03/12/16 02:11*	*1*
2-Fluorobiphenyl	*71*		*25 - 119*	*03/09/16 07:22*	*03/12/16 02:11*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/09/16 07:22*	*03/12/16 02:11*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*03/09/16 07:22*	*03/12/16 02:11*	*1*
Phenol-d5	*80*		*31 - 110*	*03/09/16 07:22*	*03/12/16 02:11*	*1*
Terphenyl-d14	*148*	*X*	*36 - 134*	*03/09/16 07:22*	*03/12/16 02:11*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/13/16 01:15	1
Barium	**0.21**	**J**	0.50	0.050	mg/L		03/12/16 12:32	03/13/16 01:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/13/16 01:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:32	03/13/16 01:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:15	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:15	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/13/16 01:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/13/16 01:15	1
Manganese	**0.68**		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/13/16 01:15	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 01:15	1
Zinc	**0.063**	**J B**	0.50	0.020	mg/L		03/12/16 12:32	03/13/16 01:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**	**J**	0.050	0.010	mg/L		03/12/16 12:37	03/13/16 10:09	1
Barium	**0.35**	**J**	0.50	0.050	mg/L		03/12/16 12:37	03/13/16 10:09	1
Beryllium	**0.0042**		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 10:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 10:09	1
Chromium	**0.11**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:09	1
Cobalt	**0.027**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:09	1
Copper	**0.070**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:09	1
Iron	**90**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 10:09	1
Lead	**0.19**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 10:09	1
Manganese	**0.81**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:09	1
Nickel	**0.078**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 10:09	1

Client Sample ID: R54-4(0-1)-030716
Date Collected: 03/07/16 11:10
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-10
Matrix: Solid
Percent Solids: 89.0

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 10:09	1
Zinc	**0.43**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 10:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.94		0.94	0.19	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Arsenic	**2.7**		0.47	0.22	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Barium	**42**		0.47	0.086	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Beryllium	**0.29**		0.19	0.041	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Cadmium	**0.14**		0.094	0.027	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Calcium	**21000**	**B**	9.4	3.0	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Chromium	**12**	**B**	0.47	0.081	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Cobalt	**4.6**		0.23	0.053	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Copper	**7.4**		0.47	0.10	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Iron	**7500**	**B**	9.4	3.6	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Lead	**40**		0.23	0.12	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Magnesium	**14000**		4.7	1.9	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Manganese	**240**	**B**	0.47	0.093	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Nickel	**9.2**	**B**	0.47	0.13	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Potassium	**530**		23	3.8	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Selenium	<0.47		0.47	0.23	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Silver	<0.23		0.23	0.055	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Sodium	**1200**		47	6.2	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Vanadium	**13**		0.23	0.068	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1
Zinc	**51**		0.94	0.30	mg/Kg	☼	03/10/16 09:27	03/10/16 23:33	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		18	9.3	ug/Kg	☼	03/10/16 19:30	03/13/16 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.35**		0.200	0.200	SU			03/09/16 20:12	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-108438 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.1, 2.4

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1		APS-2(0-1)-030716	3/7/16	0852	2	S		X	X	X	X	X					
2		APS-2(0-1)-030716 D	3/7/16	0852	2	S		X	X	X	X	X					
3		APS-3(0-1)-030716	3/7/16	0918	2	S		X	X	X	X	X					
4		APS-4(0-1)-030716	3/7/16	0935	2	S		X	X	X	X	X					
5		ALSS-1(0-1)-030716	3/7/16	0956	2	S		X	X	X	X	X					
6		ALSS-2(0-1)-030716	3/7/16	1007	2	S		X	X	X	X	X					
7		RS4-1(0-1)-030716	3/7/16	1020	2	S		X	X	X	X	X					
8		RS4-2(0-1)-030716	3/7/16	1030	2	S		X	X	X	X	X					
9		RS4-3(0-1)-030716	3/7/16	1050	2	S		X	X	X	X	X					
10		RS4-4(0-1)-030716	3/7/16	1110	2	S		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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHI	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Rick Weight

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	PID					Comments
11		AL48-1(0-1)-030716	3/7/16	1130	2	S		X	X	X	X	X					
12		AL48-1(0-1)-030716D	3/7/16	1130	2	S		X	X	X	X	X					
13		AL48-2(0-1)-030716	3/7/16	1144	2	S		X	X	X	X	X					
14		AL48-3(0-1)-030716	3/7/16	1200	2	S		X	X	X	X	X					
15		VL53-1(0-1)-030716	3/7/16	1215	2	S		X	X	X	X	X					
16		VL53-2(0-1)-030716	3/7/16	1310	2	S		X	X	X	X	X					
17		VL53-3(0-1)-030716	3/7/16	1320	2	S		X	X	X	X	X					
18		VL53-4(0-1)-030716	3/7/16	1335	2	S		X	X	X	X	X					
19		VL53-5(0-1)-030716	3/7/16	1352	2	S		X	X	X	X	X					
20		RS2-1(0-1)-030716	3/7/16	1405	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHT	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/16/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

21000 block of IL 102 (ISGS Site No. 2946-55)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.272761193 (Decimal Degrees) Longitude: -88.125640179 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.272761193 Longitude: -88.125640179

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 AL55-1 AND AL55-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-55. SEE FIGURE 3-3 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108438-1.
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

Summary Table of ISGS Site No. 2946-55
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL55-1(0-1)-030716	AL55-2(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	3/7/2016	
Location ID	AL55-1	AL55-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-55	2946-55	
Parameter			
Laboratory pH (s.u.)	8.59	7.63	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
2-Methylnaphthalene	7.9 J	15 J	---
Acenaphthene	ND	19 J	570000
Acenaphthylene	220	190	---
Anthracene	78	110	1.20E+07
Benzo(a)anthracene	390	430	900 / 1100 / 1800
Benzo(a)pyrene	570 J	620 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1000 J	1100 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	230 J	280 J	---
Benzo(k)fluoranthene	350 J	370 J	9000
bis(2-Ethylhexyl)phthalate	ND	73 J	46000
Chrysene	440	480	88000
Dibenzo(a,h)anthracene	47 J	69 J	90 / 200 / 420
Fluoranthene	690	870	3100000
Fluorene	29 J	26 J	560000
Indeno(1,2,3-cd)pyrene	270 J	330 J	900 / 900 / 1600
Naphthalene, SVOC	7.5 J	13 J	1800
Phenanthrene	190	370	---
Pyrene	880	1000	2300000
Total Metals (mg/kg)			
Antimony, Total	0.44 J	0.29 J	5
Arsenic, Total	3.1	3.7	11.3 / 13
Barium, Total	57	52	1500
Beryllium, Total	0.29	0.31	22
Cadmium, Total	0.2	0.22	5.2
Calcium, Total	120000 B	120000 B	---
Chromium, Total	ND	15 B	21
Cobalt, Total	4.2	4.1	20
Copper, Total	8.4	9.6	2900
Iron, Total	8200 B	8300 B	15000 / 15900
Lead, Total	37	96	107
Magnesium, Total	49000	48000	325000
Manganese, Total	390 B	320 B	630 / 636
Mercury, Total	0.015 J	0.042	0.89
Nickel, Total	8.3 B	9.6 B	100
Potassium, Total	550	570	---
Selenium, Total	0.29 J	0.34 J	1.3
Sodium, Total	890	270	---
Vanadium, Total	11	12	550
Zinc, Total	43	160	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.3 J	0.36 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.3	0.37	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	ND	0.86 B	5

Summary Table of ISGS Site No. 2946-55
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL55-1(0-1)-030716	AL55-2(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/7/2016	3/7/2016	
Location ID	AL55-1	AL55-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-55	2946-55	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.019 J	ND	0.05
Barium, SPLP	0.34 J	0.17 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.075	0.031	0.1
Cobalt, SPLP	0.018 J	ND	1
Copper, SPLP	0.052	0.02 J	0.65
Iron, SPLP	69 J+	27 J+	5
Lead, SPLP	0.27	0.095	0.0075
Manganese, SPLP	0.86	0.36	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.054	0.022 J	0.1
Selenium, SPLP	ND	ND	0.05
Zinc, SPLP	0.33 J	0.53	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108438-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 11:25:45 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: AL55-1(0-1)-030716
Date Collected: 03/07/16 09:56
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-5
Matrix: Solid
Percent Solids: 89.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/09/16 14:19	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:19	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/09/16 14:19	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:19	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 14:19	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/09/16 14:19	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:19	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:19	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/09/16 14:19	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:19	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:19	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:19	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:19	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/09/16 14:19	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:19	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/09/16 14:19	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 14:19	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 14:19	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 14:19	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 14:19	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/09/16 14:19	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/09/16 14:19	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 14:19	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:19	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:19	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:19	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/09/16 14:19	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/09/16 14:19	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/09/16 14:19	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/09/16 14:19	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/09/16 14:19	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:19	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/09/16 14:19	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/09/16 14:19	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/09/16 14:19	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/09/16 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/09/16 14:19*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*03/09/16 14:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*03/09/16 14:19*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/09/16 14:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1

Client Sample ID: AL55-1(0-1)-030716
Date Collected: 03/07/16 09:56
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-5
Matrix: Solid
Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2-Methylnaphthalene	**7.9**	**J**	37	6.8	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Acenaphthylene	**220**		37	4.9	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Anthracene	**78**		37	6.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Benzo[a]anthracene	**390**		37	5.0	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Benzo[a]pyrene	**570**	*	37	7.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Benzo[b]fluoranthene	**1000**	*	37	8.0	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Benzo[g,h,i]perylene	**230**	*	37	12	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Benzo[k]fluoranthene	**350**	*	37	11	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Carbazole	<190		190	93	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Chrysene	**440**		37	10	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Dibenz(a,h)anthracene	**47**	*	37	7.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Fluoranthene	**690**		37	6.9	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Fluorene	**29**	**J**	37	5.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1

Client Sample ID: AL55-1(0-1)-030716
Date Collected: 03/07/16 09:56
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-5
Matrix: Solid
Percent Solids: 89.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**270**	*	37	9.6	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Isophorone	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Naphthalene	**7.5**	J	37	5.7	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Phenanthrene	**190**		37	5.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Phenol	<190		190	82	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1
Pyrene	**880**		37	7.4	ug/Kg	☼	03/09/16 07:22	03/11/16 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*35 - 137*	*03/09/16 07:22*	*03/11/16 23:47*	*1*
2-Fluorobiphenyl	*73*		*25 - 119*	*03/09/16 07:22*	*03/11/16 23:47*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/09/16 07:22*	*03/11/16 23:47*	*1*
Nitrobenzene-d5	*70*		*25 - 115*	*03/09/16 07:22*	*03/11/16 23:47*	*1*
Phenol-d5	*80*		*31 - 110*	*03/09/16 07:22*	*03/11/16 23:47*	*1*
Terphenyl-d14	*114*		*36 - 134*	*03/09/16 07:22*	*03/11/16 23:47*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/13/16 00:41	1
Barium	**0.30**	J	0.50	0.050	mg/L		03/12/16 12:32	03/13/16 00:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/13/16 00:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:32	03/13/16 00:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:41	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:41	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/13/16 00:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/13/16 00:41	1
Manganese	**1.3**		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/13/16 00:41	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:41	1
Zinc	**0.056**	J B	0.50	0.020	mg/L		03/12/16 12:32	03/13/16 00:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.019**	J	0.050	0.010	mg/L		03/12/16 12:37	03/13/16 09:19	1
Barium	**0.34**	J	0.50	0.050	mg/L		03/12/16 12:37	03/13/16 09:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 09:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 09:19	1
Chromium	**0.075**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:19	1
Cobalt	**0.018**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:19	1
Copper	**0.052**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:19	1
Iron	**69**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 09:19	1
Lead	**0.27**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 09:19	1
Manganese	**0.86**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:19	1
Nickel	**0.054**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 09:19	1

Client Sample ID: AL55-1(0-1)-030716

Date Collected: 03/07/16 09:56
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-5

Matrix: Solid
Percent Solids: 89.0

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:19	1
Zinc	**0.33**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 09:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.44**	**J**	1.1	0.22	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Arsenic	**3.1**		0.53	0.24	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Barium	**57**		0.53	0.096	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Beryllium	**0.29**		0.21	0.046	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Cadmium	**0.20**		0.11	0.030	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Calcium	**120000**	**B**	110	34	mg/Kg	☼	03/10/16 09:27	03/11/16 01:17	10
Chromium	**13**	**B**	5.3	0.92	mg/Kg	☼	03/11/16 15:54	03/12/16 22:51	10
Cobalt	**4.2**		0.26	0.059	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Copper	**8.4**		0.53	0.11	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Iron	**8200**	**B**	11	4.1	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Lead	**37**		0.26	0.13	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Magnesium	**49000**		5.3	2.1	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Manganese	**390**	**B**	0.53	0.10	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Nickel	**8.3**	**B**	0.53	0.14	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Potassium	**550**		26	4.3	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Selenium	**0.29**	**J**	0.53	0.26	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Silver	<0.26		0.26	0.062	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Sodium	**890**		53	6.9	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Thallium	<0.53		0.53	0.26	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Vanadium	**11**		0.26	0.077	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1
Zinc	**43**		1.1	0.33	mg/Kg	☼	03/10/16 09:27	03/10/16 23:08	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	16	8.6	ug/Kg	☼	03/10/16 19:30	03/13/16 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.59**		0.200	0.200	SU			03/09/16 19:53	1

Client Sample ID: AL55-2(0-1)-030716

Date Collected: 03/07/16 10:07
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-6

Matrix: Solid
Percent Solids: 84.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 14:45	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 14:45	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/09/16 14:45	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 14:45	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 14:45	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 14:45	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 14:45	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 14:45	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 14:45	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 14:45	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 14:45	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 14:45	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 14:45	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/09/16 14:45	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 14:45	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/09/16 14:45	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 14:45	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 14:45	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 14:45	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 14:45	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 14:45	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/09/16 14:45	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 14:45	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 14:45	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 14:45	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 14:45	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/09/16 14:45	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 14:45	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/09/16 14:45	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 14:45	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 14:45	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 14:45	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 14:45	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 14:45	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 14:45	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/09/16 14:45*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/09/16 14:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*		*03/09/16 14:45*	*1*
Toluene-d8 (Surr)	*113*		*75 - 122*		*03/09/16 14:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1

Client Sample ID: AL55-2(0-1)-030716
Date Collected: 03/07/16 10:07
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-6
Matrix: Solid
Percent Solids: 84.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2-Methylnaphthalene	**15**	**J**	38	7.1	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Acenaphthene	**19**	**J**	38	6.9	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Acenaphthylene	**190**		38	5.1	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Anthracene	**110**		38	6.4	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Benzo[a]anthracene	**430**		38	5.2	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Benzo[a]pyrene	**620**	*	38	7.5	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Benzo[b]fluoranthene	**1100**	*	38	8.3	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Benzo[g,h,i]perylene	**280**	*	38	12	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Benzo[k]fluoranthene	**370**	*	38	11	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Bis(2-ethylhexyl) phthalate	**73**	**J**	190	70	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Carbazole	<190		190	96	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Chrysene	**480**		38	11	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Dibenz(a,h)anthracene	**69**	*	38	7.4	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Fluoranthene	**870**		38	7.1	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Fluorene	**26**	**J**	38	5.4	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1

Client Sample ID: AL55-2(0-1)-030716
Date Collected: 03/07/16 10:07
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-6
Matrix: Solid
Percent Solids: 84.9

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	**330**	*	38	10	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Isophorone	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Naphthalene	**13**	J	38	5.9	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Phenanthrene	**370**		38	5.4	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Phenol	<190		190	86	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1
Pyrene	**1000**		38	7.7	ug/Kg	☼	03/09/16 07:22	03/12/16 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*35 - 137*	*03/09/16 07:22*	*03/12/16 00:16*	*1*
2-Fluorobiphenyl	*75*		*25 - 119*	*03/09/16 07:22*	*03/12/16 00:16*	*1*
2-Fluorophenol	*85*		*25 - 110*	*03/09/16 07:22*	*03/12/16 00:16*	*1*
Nitrobenzene-d5	*71*		*25 - 115*	*03/09/16 07:22*	*03/12/16 00:16*	*1*
Phenol-d5	*86*		*31 - 110*	*03/09/16 07:22*	*03/12/16 00:16*	*1*
Terphenyl-d14	*129*		*36 - 134*	*03/09/16 07:22*	*03/12/16 00:16*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/13/16 00:48	1
Barium	**0.36**	J	0.50	0.050	mg/L		03/12/16 12:32	03/13/16 00:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/13/16 00:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:32	03/13/16 00:48	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:48	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:48	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/13/16 00:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/13/16 00:48	1
Manganese	**0.37**		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:48	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/13/16 00:48	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:48	1
Zinc	**0.86**	B	0.50	0.020	mg/L		03/12/16 12:32	03/13/16 00:48	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:37	03/13/16 09:26	1
Barium	**0.17**	J	0.50	0.050	mg/L		03/12/16 12:37	03/13/16 09:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 09:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 09:26	1
Chromium	**0.031**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:26	1
Copper	**0.020**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:26	1
Iron	**27**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 09:26	1
Lead	**0.095**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 09:26	1
Manganese	**0.36**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:26	1
Nickel	**0.022**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 09:26	1

Client Sample ID: AL55-2(0-1)-030716
Date Collected: 03/07/16 10:07
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-6
Matrix: Solid
Percent Solids: 84.9

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:26	1
Zinc	**0.53**		0.50	0.020	mg/L		03/12/16 12:37	03/13/16 09:26	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.29**	**J**	1.1	0.22	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Arsenic	**3.7**		0.54	0.25	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Barium	**52**		0.54	0.098	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Beryllium	**0.31**		0.21	0.046	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Cadmium	**0.22**		0.11	0.031	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Calcium	**120000**	**B**	110	35	mg/Kg	☼	03/10/16 09:27	03/11/16 01:21	10
Chromium	**15**	**B**	0.54	0.092	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Cobalt	**4.1**		0.27	0.061	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Copper	**9.6**		0.54	0.12	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Iron	**8300**	**B**	11	4.1	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Lead	**96**		0.27	0.13	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Magnesium	**48000**		5.4	2.2	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Manganese	**320**	**B**	0.54	0.11	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Nickel	**9.6**	**B**	0.54	0.15	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Potassium	**570**		27	4.4	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Selenium	**0.34**	**J**	0.54	0.27	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Silver	<0.27		0.27	0.063	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Sodium	**270**		54	7.1	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Thallium	<0.54		0.54	0.26	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Vanadium	**12**		0.27	0.078	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1
Zinc	**160**		1.1	0.34	mg/Kg	☼	03/10/16 09:27	03/10/16 23:13	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**42**		18	9.7	ug/Kg	☼	03/10/16 19:30	03/13/16 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.63**		0.200	0.200	SU			03/09/16 19:57	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-108438 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.1, 2.4

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1		APS-2(0-1)-030716	3/7/16	0852	2	S		X	X	X	X	X					
2		APS-2(0-1)-030716 D	3/7/16	0852	2	S		X	X	X	X	X					
3		APS-3(0-1)-030716	3/7/16	0918	2	S		X	X	X	X	X					
4		APS-4(0-1)-030716	3/7/16	0935	2	S		X	X	X	X	X					
5		ALSS-1(0-1)-030716	3/7/16	0956	2	S		X	X	X	X	X					
6		ALSS-2(0-1)-030716	3/7/16	1007	2	S		X	X	X	X	X					
7		RS4-1(0-1)-030716	3/7/16	1020	2	S		X	X	X	X	X					
8		RS4-2(0-1)-030716	3/7/16	1030	2	S		X	X	X	X	X					
9		RS4-3(0-1)-030716	3/7/16	1050	2	S		X	X	X	X	X					
10		RS4-4(0-1)-030716	3/7/16	1110	2	S		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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHI	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Rick Weight

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	PID					Comments
11		AL48-1(0-1)-030716	3/7/16	1130	2	S		X	X	X	X	X					
12		AL48-1(0-1)-030716D	3/7/16	1130	2	S		X	X	X	X	X					
13		AL48-2(0-1)-030716	3/7/16	1144	2	S		X	X	X	X	X					
14		AL48-3(0-1)-030716	3/7/16	1200	2	S		X	X	X	X	X					
15		VL53-1(0-1)-030716	3/7/16	1215	2	S		X	X	X	X	X					
16		VL53-2(0-1)-030716	3/7/16	1310	2	S		X	X	X	X	X					
17		VL53-3(0-1)-030716	3/7/16	1320	2	S		X	X	X	X	X					
18		VL53-4(0-1)-030716	3/7/16	1335	2	S		X	X	X	X	X					
19		VL53-5(0-1)-030716	3/7/16	1352	2	S		X	X	X	X	X					
20		RS2-1(0-1)-030716	3/7/16	1405	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHT	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/16/2016

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: 500-108388-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/14/2016 2:39:41 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/05/16 19:32	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 19:32	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/05/16 19:32	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 19:32	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 19:32	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 19:32	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/05/16 19:32	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 19:32	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 19:32	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 19:32	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/05/16 19:32	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 19:32	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 19:32	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 19:32	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 19:32	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 19:32	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/05/16 19:32	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 19:32	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/05/16 19:32	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/05/16 19:32	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 19:32	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 19:32	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 19:32	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 19:32	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/05/16 19:32*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/05/16 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/05/16 19:32*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/05/16 19:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Methylnaphthalene	**12**	**J**	38	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Acenaphthylene	**7.5**	**J**	38	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Anthracene	**26**	**J**	38	6.3	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Bis(2-ethylhexyl) phthalate	**120**	**J ***	190	69	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Butyl benzyl phthalate	<190	*	190	72	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Fluoranthene	**280**		38	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Fluorene	**7.0**	**J**	38	5.3	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Naphthalene	**8.2**	**J**	38	5.8	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Phenanthrene	**120**		38	5.3	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<190		190	84	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*35 - 137*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
2-Fluorobiphenyl	*88*		*25 - 119*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
2-Fluorophenol	*74*		*25 - 110*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
Nitrobenzene-d5	*79*		*25 - 115*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
Phenol-d5	*65*		*31 - 110*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
Terphenyl-d14	*220*	*X **	*36 - 134*	*03/07/16 16:59*	*03/09/16 06:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**220**		190	25	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[a]pyrene	**300**		190	37	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[b]fluoranthene	**520**		190	41	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[g,h,i]perylene	**120**	**J**	190	61	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[k]fluoranthene	**170**	**J**	190	56	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Chrysene	**270**		190	52	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Dibenz(a,h)anthracene	<190		190	37	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Indeno[1,2,3-cd]pyrene	**150**	**J**	190	49	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Pyrene	**430**		190	38	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Barium	**0.26**	**J**	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 14:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 14:33	1
Cadmium	**0.0037**	**J**	0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 14:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Copper	**0.010**	**J B**	0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 14:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 14:33	1
Manganese	**0.57**		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 14:33	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Zinc	**0.29**	**J B**	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 14:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Barium	**0.068**	**J**	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 06:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 06:47	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 06:47	1
Chromium	**0.015**	**J**	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Copper	**0.016**	**J**	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Iron	**13**		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 06:47	1
Lead	**0.026**		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 06:47	1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Nickel	0.010	J	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 06:47	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Zinc	0.15	J	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 06:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J F1	0.91	0.19	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Arsenic	3.0		0.46	0.21	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Barium	38	F2	0.46	0.083	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Beryllium	0.34		0.18	0.039	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Cadmium	0.35		0.091	0.026	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Calcium	120000		91	29	mg/Kg	☼	03/06/16 09:10	03/07/16 13:02	10
Chromium	11	B F1	0.46	0.078	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Cobalt	3.4	F2	0.23	0.051	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Copper	14	F1	0.46	0.099	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Iron	7300	B	9.1	3.5	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Lead	26		0.23	0.11	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Magnesium	77000		46	18	mg/Kg	☼	03/06/16 09:10	03/07/16 13:02	10
Manganese	360	F2	0.46	0.090	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Nickel	8.6	B	0.46	0.12	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Potassium	750	F1 F2	23	3.7	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Selenium	0.33	J	0.46	0.23	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Sodium	360		46	6.0	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Thallium	<0.46		0.46	0.22	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Vanadium	11		0.23	0.066	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Zinc	79	F2 F1	0.91	0.29	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/09/16 13:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		17	8.9	ug/Kg	☼	03/07/16 19:00	03/11/16 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.12		0.200	0.200	SU			03/07/16 16:27	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

GC 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108388

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 2.7

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		**Parameter**
IDOT 039		
Project Location/State	**Lab Project #**	
Wilmington, IL		
Sampler	**Lab PM**	
A. Tuckasz	Dick Wright	

Preservative Key
1. HCL, Cool to 4°
Cool to 4°
ol to 4°
ol to 4°
, Cool to 4°

500-108388 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH	PCB's				Comments
1		VLGO-1(0-1)-030416	3/4/16	1344	2	S	X	X	X	X	X	X				
2		VLGO-1(0-1)-030416D	3/4/16	1344	2	S	X	X	X	X	X	X				
3		VLGO-2(0-1)-030416	3/4/16	1405	2	S	X	X	X	X	X	X				
4		VLGO-3(0-1)-030416	3/4/16	1420	2	S	X	X	X	X	X	X				
5		APS-1(0-1)-030416	3/4/16	1435	2	S	X	X	X	X	X					
6		PP-1(0-1)-030416	3/4/16	1515	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI

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:

TAL-4124-500 (1209)

3/14/2016

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: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/06/16 18:18	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/06/16 18:18	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/06/16 18:18	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 18:18	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 18:18	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/06/16 18:18	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/06/16 18:18	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/06/16 18:18	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/06/16 18:18	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 18:18	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/06/16 18:18	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/06/16 18:18	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/06/16 18:18	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/06/16 18:18	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/06/16 18:18	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/06/16 18:18	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/06/16 18:18	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/06/16 18:18	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/06/16 18:18	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/06/16 18:18	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/06/16 18:18	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/06/16 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/06/16 18:18*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*03/06/16 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/06/16 18:18*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/06/16 18:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Acenaphthene	**7.6**	**J**	38	6.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Anthracene	**24**	**J**	38	6.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[a]anthracene	**140**		38	5.2	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[a]pyrene	**170**	*	38	7.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[b]fluoranthene	**320**	*	38	8.3	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[g,h,i]perylene	**87**	*	38	12	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[k]fluoranthene	**120**	*	38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Chrysene	**180**		38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Dibenz(a,h)anthracene	<38	*	38	7.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Fluoranthene	**300**		38	7.2	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**73**	*	38	10	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Phenanthrene	**150**		38	5.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Phenol	<190		190	86	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Pyrene	**370**		38	7.7	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*35 - 137*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
2-Fluorobiphenyl	*75*		*25 - 119*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
2-Fluorophenol	*66*		*25 - 110*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
Nitrobenzene-d5	*77*		*25 - 115*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
Phenol-d5	*63*		*31 - 110*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
Terphenyl-d14	*129*		*36 - 134*	*03/07/16 16:21*	*03/09/16 18:25*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 19:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 19:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 19:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 19:19	1
Manganese	**0.76**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 19:19	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Zinc	**0.85**	**B**	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 19:19	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		03/09/16 08:43	03/10/16 04:47	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 04:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 04:47	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 04:47	1
Chromium	**0.076**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Copper	**0.065**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Iron	**72**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 04:47	1
Lead	**0.11**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 04:47	1
Manganese	**0.80**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Nickel	**0.050**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 04:47	1

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Zinc	**0.41**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 04:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Arsenic	**4.8**		0.48	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Barium	**68**		0.48	0.087	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Beryllium	**0.33**		0.19	0.041	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Cadmium	**0.32**		0.095	0.028	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Calcium	**27000**	**B**	9.5	3.1	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Chromium	**11**	**B**	0.48	0.082	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Cobalt	**4.8**		0.24	0.054	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Copper	**15**		0.48	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Iron	**9300**	**B**	9.5	3.7	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Lead	**38**		0.24	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Magnesium	**16000**	**B**	4.8	1.9	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Manganese	**370**		0.48	0.094	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Nickel	**9.1**		0.48	0.13	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Potassium	**670**		24	3.9	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Selenium	**0.29**	**J**	0.48	0.24	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Sodium	**720**		48	6.3	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Vanadium	**15**		0.24	0.069	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Zinc	**80**		9.5	3.0	mg/Kg	☼	03/06/16 09:35	03/08/16 15:49	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.5	ug/Kg	☼	03/07/16 19:00	03/11/16 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.69**		0.200	0.200	SU			03/07/16 15:38	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

20000 block of IL 102 (ISGS Site No. 2946-56)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.271542324 (Decimal Degrees) Longitude: -88.125023975 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.271542324 Longitude: -88.125023975

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 AL56-2 THROUGH AL56-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-56. SEE FIGURE 3-3 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108662-1.
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-56
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL56-2(0-1)-031016	AL56-3(0-1)-031016	AL56-4(0-1)-031016	Soil Reference Concentrations[A]
Sample Date	3/10/2016	3/10/2016	3/10/2016	
Location ID	AL56-2	AL56-3	AL56-4	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-56	2946-56	2946-56	
Parameter				
Laboratory pH (s.u.)	8	8	8.11	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Acenaphthylene	13 J	ND	ND	---
Anthracene	8.2 J	ND	ND	1.20E+07
Benzo(a)anthracene	64	9.3 J	67 J	900 / 1100 / 1800
Benzo(a)pyrene	90 J	15 J	100 J	90 / 1300 / 2100
Benzo(b)fluoranthene	180 J	29 J	160 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	46 J	ND	100 J	---
Benzo(k)fluoranthene	51 J	ND	58 J	9000
Chrysene	86	14 J	95 J	88000
Fluoranthene	120 B	ND	72 B	3100000
Indeno(1,2,3-cd)pyrene	46 J	ND	85 J	900 / 900 / 1600
Pyrene	170	17 J	280 J	2300000
Total Metals (mg/kg)				
Antimony, Total	0.34 J	ND	0.37 J	5
Arsenic, Total	3.5 J-	3.7 J-	1.8 J-	11.3 / 13
Barium, Total	54 J	58 J	30 J	1500
Beryllium, Total	0.38 J	0.48 J	0.27 J	22
Cadmium, Total	0.2 J	0.047 J	0.37 J	5.2
Calcium, Total	110000 J	1000 J	230000 J	---
Chromium, Total	7.8 J-	13 J-	32 J-	21
Cobalt, Total	5	5.7	2.9	20
Copper, Total	8.3 J	12 J	7.3 J	2900
Iron, Total	8100 J	13000 J	5900 J	15000 / 15900
Lead, Total	58 J-	9.8 J-	190 J-	107
Magnesium, Total	43000 J	1900 J	140000 J	325000
Manganese, Total	390 J+	92 J+	360 J+	630 / 636
Mercury, Total	0.037	0.019	ND	0.89
Nickel, Total	9.6 J	13 J	6.2 J	100
Potassium, Total	660 J+	760 J+	730 J+	---
Selenium, Total	0.48 J-	0.36 J	0.41 J	1.3
Sodium, Total	1900	2400	870	---
Vanadium, Total	14	24	6.7	550
Zinc, Total	51 J	41 J	63 J	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.44 J	0.39 J	0.4 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.11	1.7	2.4	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	5

Summary Table of ISGS Site No. 2946-56
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL56-2(0-1)-031016	AL56-3(0-1)-031016	AL56-4(0-1)-031016	Soil Reference Concentrations[A]
Sample Date	3/10/2016	3/10/2016	3/10/2016	
Location ID	AL56-2	AL56-3	AL56-4	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-56	2946-56	2946-56	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.048 J	0.06	ND	0.05
Barium, SPLP	0.85	1.2	0.32 J	2
Beryllium, SPLP	0.0068	0.0092	ND	0.004
Cadmium, SPLP	0.0026 J	0.0021 J	ND	0.005
Chromium, SPLP	0.18	0.23	0.092	0.1
Cobalt, SPLP	0.041	0.07	0.018 J	1
Copper, SPLP	0.15	0.18	0.067	0.65
Iron, SPLP	190 J+	240 J+	68 J+	5
Lead, SPLP	0.41	0.2	0.14	0.0075
Manganese, SPLP	1.5	1.3	0.62	0.15
Mercury, SPLP	0.0002	ND	ND	0.002
Nickel, SPLP	0.15	0.22	0.064	0.1
Selenium, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.82	0.9	0.33 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108662-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 3:07:44 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: AL56-4(0-1)-031016
Date Collected: 03/10/16 09:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-5
Matrix: Solid
Percent Solids: 79.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<25		25	4.8	ug/Kg	☼		03/14/16 12:20	1
Benzene	<6.3		6.3	1.4	ug/Kg	☼		03/14/16 12:20	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		03/14/16 12:20	1
Bromoform	<6.3		6.3	1.3	ug/Kg	☼		03/14/16 12:20	1
Bromomethane	<6.3		6.3	2.3	ug/Kg	☼		03/14/16 12:20	1
Carbon disulfide	<6.3		6.3	2.3	ug/Kg	☼		03/14/16 12:20	1
Carbon tetrachloride	<6.3		6.3	1.3	ug/Kg	☼		03/14/16 12:20	1
Chlorobenzene	<6.3		6.3	1.5	ug/Kg	☼		03/14/16 12:20	1
Chloroethane	<6.3		6.3	2.6	ug/Kg	☼		03/14/16 12:20	1
Chloroform	<6.3		6.3	1.2	ug/Kg	☼		03/14/16 12:20	1
Chloromethane	<6.3		6.3	1.5	ug/Kg	☼		03/14/16 12:20	1
cis-1,2-Dichloroethene	<6.3		6.3	1.3	ug/Kg	☼		03/14/16 12:20	1
cis-1,3-Dichloropropene	<6.3		6.3	1.4	ug/Kg	☼		03/14/16 12:20	1
Dibromochloromethane	<6.3		6.3	0.72	ug/Kg	☼		03/14/16 12:20	1
1,1-Dichloroethane	<6.3		6.3	1.3	ug/Kg	☼		03/14/16 12:20	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	☼		03/14/16 12:20	1
1,1-Dichloroethene	<6.3		6.3	2.3	ug/Kg	☼		03/14/16 12:20	1
1,2-Dichloropropane	<6.3		6.3	1.6	ug/Kg	☼		03/14/16 12:20	1
1,3-Dichloropropene, Total	<6.3		6.3	1.8	ug/Kg	☼		03/14/16 12:20	1
Ethylbenzene	<6.3		6.3	1.6	ug/Kg	☼		03/14/16 12:20	1
2-Hexanone	<6.3		6.3	1.9	ug/Kg	☼		03/14/16 12:20	1
Methylene Chloride	<6.3		6.3	4.7	ug/Kg	☼		03/14/16 12:20	1
Methyl Ethyl Ketone	<6.3		6.3	2.2	ug/Kg	☼		03/14/16 12:20	1
methyl isobutyl ketone	<6.3		6.3	1.3	ug/Kg	☼		03/14/16 12:20	1
Methyl tert-butyl ether	<6.3		6.3	1.5	ug/Kg	☼		03/14/16 12:20	1
Styrene	<6.3		6.3	1.5	ug/Kg	☼		03/14/16 12:20	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	0.99	ug/Kg	☼		03/14/16 12:20	1
Tetrachloroethene	<6.3		6.3	1.3	ug/Kg	☼		03/14/16 12:20	1
Toluene	<6.3		6.3	2.2	ug/Kg	☼		03/14/16 12:20	1
trans-1,2-Dichloroethene	<6.3		6.3	1.6	ug/Kg	☼		03/14/16 12:20	1
trans-1,3-Dichloropropene	<6.3		6.3	1.8	ug/Kg	☼		03/14/16 12:20	1
1,1,1-Trichloroethane	<6.3		6.3	1.5	ug/Kg	☼		03/14/16 12:20	1
1,1,2-Trichloroethane	<6.3		6.3	1.2	ug/Kg	☼		03/14/16 12:20	1
Trichloroethene	<6.3		6.3	1.7	ug/Kg	☼		03/14/16 12:20	1
Vinyl chloride	<6.3		6.3	1.5	ug/Kg	☼		03/14/16 12:20	1
Xylenes, Total	<13		13	2.3	ug/Kg	☼		03/14/16 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/14/16 12:20*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/14/16 12:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*03/14/16 12:20*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*03/14/16 12:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1

Client Sample ID: AL56-4(0-1)-031016
Date Collected: 03/10/16 09:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-5
Matrix: Solid
Percent Solids: 79.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2,4-Dinitrophenol	<810		810	710	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2-Methylphenol	<200		200	64	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
3,3'-Dichlorobenzidine	<200	*	200	56	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
4,6-Dinitro-2-methylphenol	<810		810	320	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Anthracene	<40		40	6.7	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Benzo[a]anthracene	**67**	*	40	5.4	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Benzo[a]pyrene	**100**	*	40	7.8	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Benzo[b]fluoranthene	**160**	*	40	8.7	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Benzo[g,h,i]perylene	**100**	*	40	13	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Benzo[k]fluoranthene	**58**	*	40	12	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Bis(2-ethylhexyl) phthalate	<200	*	200	73	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Butyl benzyl phthalate	<200	*	200	76	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Carbazole	<200		200	100	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Chrysene	**95**	*	40	11	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Dibenz(a,h)anthracene	<40	*	40	7.8	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Dibenzofuran	<200		200	47	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Fluoranthene	**72**	**B**	40	7.5	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Fluorene	<40		40	5.7	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Hexachloroethane	<200		200	61	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1

Client Sample ID: AL56-4(0-1)-031016
Date Collected: 03/10/16 09:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-5
Matrix: Solid
Percent Solids: 79.9

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	**85**	*	40	10	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Isophorone	<200		200	45	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Naphthalene	<40		40	6.2	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Nitrobenzene	<40		40	10	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
N-Nitrosodi-n-propylamine	<81		81	49	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Pentachlorophenol	<810		810	640	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Phenanthrene	**35**	J B	40	5.6	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Phenol	<200		200	89	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1
Pyrene	**280**	*	40	8.0	ug/Kg	☼	03/14/16 07:02	03/21/16 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*35 - 137*	*03/14/16 07:02*	*03/21/16 16:49*	*1*
2-Fluorobiphenyl	*85*		*25 - 119*	*03/14/16 07:02*	*03/21/16 16:49*	*1*
2-Fluorophenol	*99*		*25 - 110*	*03/14/16 07:02*	*03/21/16 16:49*	*1*
Nitrobenzene-d5	*79*		*25 - 115*	*03/14/16 07:02*	*03/21/16 16:49*	*1*
Phenol-d5	*98*		*31 - 110*	*03/14/16 07:02*	*03/21/16 16:49*	*1*
Terphenyl-d14	*254*	*X *	*36 - 134*	*03/14/16 07:02*	*03/21/16 16:49*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 02:03	1
Barium	**0.40**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 02:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 02:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 02:03	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:03	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:03	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:03	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 02:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 02:03	1
Manganese	**2.4**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:03	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:03	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 02:03	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:03	1
Zinc	**0.039**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 02:03	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:11	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:11	1
Chromium	**0.092**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:11	1
Cobalt	**0.018**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:11	1
Copper	**0.067**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:11	1
Iron	**68**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:11	1
Lead	**0.14**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 12:11	1
Manganese	**0.62**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:11	1
Nickel	**0.064**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:11	1

Client Sample ID: AL56-4(0-1)-031016
Date Collected: 03/10/16 09:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-5
Matrix: Solid
Percent Solids: 79.9

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:11	1
Zinc	**0.33**	**J ^**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 12:11	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.37**	**J**	1.2	0.25	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Arsenic	**1.8**		0.60	0.28	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Barium	**30**		0.60	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Beryllium	**0.27**		0.24	0.052	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Cadmium	**0.37**		0.12	0.035	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Calcium	**230000**	**B**	120	39	mg/Kg	☼	03/16/16 11:30	03/20/16 02:15	10
Chromium	**32**		0.60	0.10	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Cobalt	**2.9**		0.30	0.068	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Copper	**7.3**		0.60	0.13	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Iron	**5900**	**B**	12	4.6	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Lead	**190**		0.30	0.15	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Magnesium	**140000**	**B**	60	24	mg/Kg	☼	03/16/16 11:30	03/20/16 02:15	10
Manganese	**360**	**B**	0.60	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Nickel	**6.2**		0.60	0.16	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Potassium	**730**		30	4.9	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Selenium	**0.41**	**J**	0.60	0.30	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Silver	<0.30		0.30	0.070	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Sodium	**870**		60	7.9	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Thallium	<0.60		0.60	0.29	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Vanadium	**6.7**		0.30	0.087	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1
Zinc	**63**		1.2	0.38	mg/Kg	☼	03/16/16 11:30	03/19/16 06:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:02	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 19:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<20		20	10	ug/Kg	☼	03/18/16 15:00	03/19/16 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.11**		0.200	0.200	SU			03/12/16 15:12	1

Client Sample ID: AL56-3(0-1)-031016
Date Collected: 03/10/16 09:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-6
Matrix: Solid
Percent Solids: 87.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/14/16 12:46	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 12:46	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/14/16 12:46	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 12:46	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 12:46	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 12:46	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 12:46	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 12:46	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/14/16 12:46	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/14/16 12:46	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 12:46	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 12:46	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 12:46	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/14/16 12:46	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 12:46	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/14/16 12:46	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 12:46	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/14/16 12:46	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/14/16 12:46	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 12:46	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/14/16 12:46	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/14/16 12:46	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/14/16 12:46	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 12:46	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 12:46	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 12:46	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/14/16 12:46	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 12:46	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/14/16 12:46	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 12:46	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/14/16 12:46	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 12:46	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/14/16 12:46	1
Trichloroethene	<5.7		5.7	1.6	ug/Kg	☼		03/14/16 12:46	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 12:46	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/14/16 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/14/16 12:46*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/14/16 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*03/14/16 12:46*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*03/14/16 12:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1

Client Sample ID: AL56-3(0-1)-031016
Date Collected: 03/10/16 09:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-6
Matrix: Solid
Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Anthracene	<37		37	6.2	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Benzo[a]anthracene	**9.3**	**J**	37	5.0	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Benzo[a]pyrene	**15**	**J ***	37	7.2	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Benzo[b]fluoranthene	**29**	**J ***	37	8.0	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Benzo[g,h,i]perylene	<37	*	37	12	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Benzo[k]fluoranthene	<37	*	37	11	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Carbazole	<190		190	93	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Chrysene	**14**	**J**	37	10	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Dibenz(a,h)anthracene	<37	*	37	7.2	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Fluoranthene	**17**	**J B**	37	6.9	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108662-1

Client Sample ID: AL56-3(0-1)-031016
Date Collected: 03/10/16 09:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-6
Matrix: Solid
Percent Solids: 87.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37	*	37	9.6	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Isophorone	<190		190	42	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Phenanthrene	**6.4**	**J B**	37	5.2	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Phenol	<190		190	82	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1
Pyrene	**17**	**J**	37	7.4	ug/Kg	☼	03/14/16 07:02	03/23/16 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*52*		*35 - 137*	*03/14/16 07:02*	*03/23/16 01:17*	*1*
2-Fluorobiphenyl	*84*		*25 - 119*	*03/14/16 07:02*	*03/23/16 01:17*	*1*
2-Fluorophenol	*97*		*25 - 110*	*03/14/16 07:02*	*03/23/16 01:17*	*1*
Nitrobenzene-d5	*76*		*25 - 115*	*03/14/16 07:02*	*03/23/16 01:17*	*1*
Phenol-d5	*90*		*31 - 110*	*03/14/16 07:02*	*03/23/16 01:17*	*1*
Terphenyl-d14	*95*		*36 - 134*	*03/14/16 07:02*	*03/23/16 01:17*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 02:08	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 02:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 02:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 02:08	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:08	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:08	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:08	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 02:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 02:08	1
Manganese	**1.7**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:08	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:08	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 02:08	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:08	1
Zinc	**0.022**	**J B**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 02:08	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.060**		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:24	1
Barium	**1.2**		0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:24	1
Beryllium	**0.0092**		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:24	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:24	1
Chromium	**0.23**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:24	1
Cobalt	**0.070**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:24	1
Copper	**0.18**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:24	1
Iron	**240**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:24	1
Lead	**0.20**		0.038	0.038	mg/L		03/20/16 14:00	03/22/16 13:53	5
Manganese	**1.3**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:24	1
Nickel	**0.22**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:24	1

Client Sample ID: AL56-3(0-1)-031016
Date Collected: 03/10/16 09:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-6
Matrix: Solid
Percent Solids: 87.0

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:24	1
Zinc	**0.90**		0.50	0.020	mg/L		03/20/16 14:00	03/22/16 13:24	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.99		0.99	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Arsenic	**3.7**		0.49	0.23	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Barium	**58**		0.49	0.091	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Beryllium	**0.48**		0.20	0.043	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Cadmium	**0.047**	**J**	0.099	0.029	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Calcium	**1000**	**B**	9.9	3.2	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Chromium	**13**		0.49	0.085	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Cobalt	**5.7**		0.25	0.056	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Copper	**12**		0.49	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Iron	**13000**	**B**	9.9	3.8	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Lead	**9.8**		0.25	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Magnesium	**1900**	**B**	4.9	2.0	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Manganese	**92**	**B**	0.49	0.098	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Nickel	**13**		0.49	0.13	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Potassium	**760**		25	4.0	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Selenium	**0.36**	**J**	0.49	0.24	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Sodium	**2400**		49	6.5	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Vanadium	**24**		0.25	0.072	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1
Zinc	**41**		0.99	0.31	mg/Kg	☼	03/16/16 11:30	03/19/16 06:42	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:04	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/22/16 08:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		17	9.2	ug/Kg	☼	03/18/16 15:00	03/19/16 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.00**		0.200	0.200	SU			03/12/16 15:16	1

Client Sample ID: AL56-2(0-1)-031016
Date Collected: 03/10/16 09:35
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-7
Matrix: Solid
Percent Solids: 84.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/14/16 13:12	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/14/16 13:12	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/14/16 13:12	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/14/16 13:12	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/14/16 13:12	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/14/16 13:12	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/14/16 13:12	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/14/16 13:12	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/14/16 13:12	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/14/16 13:12	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/14/16 13:12	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/14/16 13:12	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/14/16 13:12	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/14/16 13:12	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/14/16 13:12	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/14/16 13:12	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/14/16 13:12	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/14/16 13:12	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/14/16 13:12	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/14/16 13:12	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/14/16 13:12	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/14/16 13:12	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/14/16 13:12	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/14/16 13:12	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/14/16 13:12	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/14/16 13:12	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/14/16 13:12	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/14/16 13:12	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/14/16 13:12	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/14/16 13:12	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/14/16 13:12	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/14/16 13:12	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/14/16 13:12	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/14/16 13:12	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/14/16 13:12	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/14/16 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/14/16 13:12*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/14/16 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/14/16 13:12*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*03/14/16 13:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1

Client Sample ID: AL56-2(0-1)-031016
Date Collected: 03/10/16 09:35
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-7
Matrix: Solid
Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Acenaphthylene	**13**	**J**	38	5.1	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Anthracene	**8.2**	**J**	38	6.4	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Benzo[a]anthracene	**64**		38	5.2	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Benzo[a]pyrene	**90**	*	38	7.4	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Benzo[b]fluoranthene	**180**	*	38	8.3	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Benzo[g,h,i]perylene	**46**	*	38	12	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Benzo[k]fluoranthene	**51**	*	38	11	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Carbazole	<190		190	96	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Chrysene	**86**		38	10	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Fluoranthene	**120**	**B**	38	7.1	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1

Client Sample ID: AL56-2(0-1)-031016
Date Collected: 03/10/16 09:35
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-7
Matrix: Solid
Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**46**	*	38	10	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Isophorone	<190		190	43	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Phenanthrene	**48**	B	38	5.4	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Phenol	<190		190	85	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1
Pyrene	**170**		38	7.6	ug/Kg	☼	03/14/16 07:02	03/23/16 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*35 - 137*	*03/14/16 07:02*	*03/23/16 01:46*	*1*
2-Fluorobiphenyl	*80*		*25 - 119*	*03/14/16 07:02*	*03/23/16 01:46*	*1*
2-Fluorophenol	*90*		*25 - 110*	*03/14/16 07:02*	*03/23/16 01:46*	*1*
Nitrobenzene-d5	*71*		*25 - 115*	*03/14/16 07:02*	*03/23/16 01:46*	*1*
Phenol-d5	*69*		*31 - 110*	*03/14/16 07:02*	*03/23/16 01:46*	*1*
Terphenyl-d14	*132*		*36 - 134*	*03/14/16 07:02*	*03/23/16 01:46*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 02:14	1
Barium	**0.44**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 02:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 02:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 02:14	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:14	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:14	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:14	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 02:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 02:14	1
Manganese	**0.11**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:14	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:14	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 02:14	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:14	1
Zinc	**0.027**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 02:14	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.048**	J	0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:29	1
Barium	**0.85**		0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:29	1
Beryllium	**0.0068**		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:29	1
Cadmium	**0.0026**	J	0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:29	1
Chromium	**0.18**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:29	1
Cobalt	**0.041**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:29	1
Copper	**0.15**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:29	1
Iron	**190**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:29	1
Lead	**0.41**		0.038	0.038	mg/L		03/20/16 14:00	03/22/16 14:05	5
Manganese	**1.5**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:29	1
Nickel	**0.15**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:29	1

Client Sample ID: AL56-2(0-1)-031016
Date Collected: 03/10/16 09:35
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-7
Matrix: Solid
Percent Solids: 84.2

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:29	1
Zinc	**0.82**		0.50	0.020	mg/L		03/20/16 14:00	03/22/16 13:29	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.34**	**J**	0.90	0.19	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Arsenic	**3.5**		0.45	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Barium	**54**		0.45	0.082	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Beryllium	**0.38**		0.18	0.039	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Cadmium	**0.20**		0.090	0.026	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Calcium	**110000**	**B**	90	29	mg/Kg	☼	03/16/16 11:30	03/20/16 02:20	10
Chromium	**7.8**		0.45	0.077	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Cobalt	**5.0**		0.22	0.051	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Copper	**8.3**		0.45	0.097	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Iron	**8100**	**B**	9.0	3.5	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Lead	**58**		0.22	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Magnesium	**43000**	**B**	4.5	1.8	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Manganese	**390**	**B**	0.45	0.089	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Nickel	**9.6**		0.45	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Potassium	**660**		22	3.7	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Selenium	**0.48**		0.45	0.22	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Silver	<0.22		0.22	0.053	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Sodium	**1900**		45	5.9	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Vanadium	**14**		0.22	0.066	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1
Zinc	**51**		0.90	0.28	mg/Kg	☼	03/16/16 11:30	03/19/16 06:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:06	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 19:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**37**		18	9.5	ug/Kg	☼	03/18/16 15:00	03/19/16 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.00**		0.200	0.200	SU			03/12/16 15:21	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108662-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.5

500-108662 COC

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108662

Chain of Custody Number:

Page 1 of 2

Temperature °C of Cooler: 3.4

Client: WESTON SOLUTIONS
Client Project #:
Project Name: 1DOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: Alistair Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (Pres. 7)	SVOCs (Pres. 7)	Total Metals (Pres. 7)	TCLP/SPLP Metals (Pres. 7)	pH (Pres. 7)					Comments
1		VL51-3(0-1)-031016	031016	0835	2	S	X	X	X	X	X					
2		VL51-2(0-1)-031016	↓	0847	↓	↓	↓	↓	↓	↓	↓					
3		VL51-2(0-1)-031016D	↓	0847	↓	↓	↓	↓	↓	↓	↓					
4		VL51-1(0-1)-031016	↓	0900	↓	↓	↓	↓	↓	↓	↓					
5		AL56-4(0-1)-031016	↓	0916	↓	↓	↓	↓	↓	↓	↓					
6		AL56-3(0-1)-031016	↓	0924	↓	↓	↓	↓	↓	↓	↓					
7		AL56-2(0-1)-031016	↓	0935	↓	↓	↓	↓	↓	↓	↓					
8		AL56-1(0-1)-031016	↓	0951	↓	↓	↓	↓	↓	↓	↓					
9		VL58-4(0-1)-031016	↓	1005	↓	↓	↓	↓	↓	↓	↓					
10		VL58-3(0-1)-031016	↓	1020	↓	↓	↓	↓	↓	↓	↓					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Per contract Other
Requested Due Date ____________

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ______ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	Sherri Scott	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
		Parameter						VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		VL58-2(0-1)-031016	031016	1025	2	S		X	X	X	X	X					
12		VL58-2(0-1)-031016D		1025				X	X	X	X	X					
13		VL58-1(0-1)-031016		1035				X	X	X	X	X					
14		BP-3(0-1)-031016		1045				X	X	X	X	X					
15		BP-2(0-1)-031016		1100				X	X	X	X	X					
16		BP-1(0-1)-031016		1110				X	X	X	X	X					
17		FPD-7(0-1)-031016		1116				X	X	X	X	X					
18		FPD-6(0-1)-031016		1122				X	X	X	X	X					
19		FPD-5(0-1)-031016		1130				X	X	X	X	X					
20		FPD-4(0-1)-031016		1141				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Quickturnaround Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

2140 Water Street (ISGS Site No. 2946-57)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.273821350 (Decimal Degrees) Longitude: -88.126047463 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.273821350 Longitude: -88.126047463

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 APS-1, APS-3, AND APS-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-57. SEE FIGURE 3-3 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108388-1 AND 500-108438-1.
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-57
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	APS-1(0-1)-030416	APS-3(0-1)-030716	APS-4(0-1)-030716	Soil Reference Concentrations[A]
Sample Date	3/4/2016	3/7/2016	3/7/2016	
Location ID	APS-1	APS-3	APS-4	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-57	2946-57	2946-57	
Parameter				
Laboratory pH (s.u.)	7.98	8.52	7.2	<6.25,>9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
2-Methylnaphthalene	ND	ND	7.9 J	---
Acenaphthene	9.9 J	6.9 J	7.7 J	570000
Acenaphthylene	26 J	19 J	23 J	---
Anthracene	30 J	20 J	37 J	1.20E+07
Benzo(a)anthracene	200	120	190	900 / 1100 / 1800
Benzo(a)pyrene	260	150	250 J	90 / 1300 / 2100
Benzo(b)fluoranthene	510	260	490 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	130 J	52	93 J	---
Benzo(k)fluoranthene	170 J	100	180 J	9000
Chrysene	250	140	240	88000
Dibenzo(a,h)anthracene	16 J	13 J	23 J	90 / 200 / 420
Fluoranthene	290	270	460	3100000
Fluorene	ND	6.5 J	8.6 J	560000
Indeno(1,2,3-cd)pyrene	37 J	68	120 J	900 / 900 / 1600
Phenanthrene	130	93	150	---
Pyrene	620	220	410	2300000
Total Metals (mg/kg)				
Antimony, Total	ND	ND	0.26 J	5
Arsenic, Total	3.8	7.3	3.4	11.3 / 13
Barium, Total	42 J	66	36	1500
Beryllium, Total	0.37	0.44	0.31	22
Cadmium, Total	0.27	0.16	0.28	5.2
Calcium, Total	45000 J	6400 B	80000 B	---
Chromium, Total	11 J-	12 B	ND	21
Cobalt, Total	3 J	4.1	4.1	20
Copper, Total	14 J-	9.3	12	2900
Iron, Total	7600 J+	12000 B	8000 B	15000 / 15900
Lead, Total	51 J	24	46	107
Magnesium, Total	25000 J	3900	34000	325000
Manganese, Total	180 J	160 B	250 B	630 / 636
Mercury, Total	0.036	0.03	0.025	0.89
Nickel, Total	7.9 B	11 B	9.3 B	100
Potassium, Total	570 J	580	660	---
Selenium, Total	0.63	ND	ND	1.3
Sodium, Total	1100	1800	530	---
Vanadium, Total	13	18	12	550
Zinc, Total	58 J	50	77	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.32 J	0.27 J	0.26 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	0.0034 J	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	0.45	0.53	0.092	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	5

Summary Table of ISGS Site No. 2946-57
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	APS-1(0-1)-030416	APS-3(0-1)-030716	APS-4(0-1)-030716	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/7/2016	3/7/2016	
Location ID	APS-1	APS-3	APS-4	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-57	2946-57	2946-57	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.036 J	0.032 J	ND	0.05
Barium, SPLP	0.43 J	0.55	0.1 J	2
Beryllium, SPLP	ND	0.004	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.11	0.12	0.022 J	0.1
Cobalt, SPLP	0.017 J	0.019 J	ND	1
Copper, SPLP	0.088	0.071	0.02 J	0.65
Iron, SPLP	91 J+	110 J+	18 J+	5
Lead, SPLP	0.24	0.14	0.051	0.0075
Manganese, SPLP	0.64	0.51	0.21	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.063	0.075	0.016 J	0.1
Selenium, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.48 J	0.4 J	0.14 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108388-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/14/2016 2:39:41 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: APS-1(0-1)-030416
Date Collected: 03/04/16 14:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-5
Matrix: Solid
Percent Solids: 84.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/05/16 18:39	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 18:39	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/05/16 18:39	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 18:39	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 18:39	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 18:39	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 18:39	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 18:39	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/05/16 18:39	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 18:39	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 18:39	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 18:39	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 18:39	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 18:39	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 18:39	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/05/16 18:39	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 18:39	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 18:39	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 18:39	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 18:39	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 18:39	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/05/16 18:39	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 18:39	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 18:39	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 18:39	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 18:39	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/05/16 18:39	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 18:39	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 18:39	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 18:39	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 18:39	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 18:39	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 18:39	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 18:39	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 18:39	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/05/16 18:39*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/05/16 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/05/16 18:39*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/05/16 18:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1

Client Sample ID: APS-1(0-1)-030416
Date Collected: 03/04/16 14:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-5
Matrix: Solid
Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Acenaphthene	**9.9**	**J**	38	6.8	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Acenaphthylene	**26**	**J**	38	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Anthracene	**30**	**J**	38	6.3	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Benzo[a]anthracene	**200**		38	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Chrysene	**250**		38	10	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Dibenz(a,h)anthracene	**16**	**J ***	38	7.3	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Fluoranthene	**290**		38	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Fluorene	<38		38	5.3	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Indeno[1,2,3-cd]pyrene	**37**	**J ***	38	9.8	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Naphthalene	<38		38	5.8	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1

Client Sample ID: APS-1(0-1)-030416
Date Collected: 03/04/16 14:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-5
Matrix: Solid
Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Phenanthrene	**130**		38	5.3	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Phenol	<190		190	84	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1
Pyrene	**620**		38	7.5	ug/Kg	☼	03/07/16 16:59	03/09/16 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*35 - 137*	*03/07/16 16:59*	*03/09/16 05:53*	*1*
2-Fluorobiphenyl	*87*		*25 - 119*	*03/07/16 16:59*	*03/09/16 05:53*	*1*
2-Fluorophenol	*78*		*25 - 110*	*03/07/16 16:59*	*03/09/16 05:53*	*1*
Nitrobenzene-d5	*79*		*25 - 115*	*03/07/16 16:59*	*03/09/16 05:53*	*1*
Phenol-d5	*59*		*31 - 110*	*03/07/16 16:59*	*03/09/16 05:53*	*1*
Terphenyl-d14	*209*	*X*	*36 - 134*	*03/07/16 16:59*	*03/09/16 05:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**260**		190	37	ug/Kg	☼	03/07/16 16:59	03/10/16 14:32	5
Benzo[b]fluoranthene	**510**		190	41	ug/Kg	☼	03/07/16 16:59	03/10/16 14:32	5
Benzo[g,h,i]perylene	**130**	**J**	190	61	ug/Kg	☼	03/07/16 16:59	03/10/16 14:32	5
Benzo[k]fluoranthene	**170**	**J**	190	56	ug/Kg	☼	03/07/16 16:59	03/10/16 14:32	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:47	03/09/16 14:23	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 14:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 14:23	1
Cadmium	**0.0034**	**J**	0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 14:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:23	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:23	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 14:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 14:23	1
Manganese	**0.45**		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 14:23	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:23	1
Zinc	**0.11**	**J B**	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 14:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.036**	**J**	0.050	0.010	mg/L		03/09/16 08:45	03/10/16 06:34	1
Barium	**0.43**	**J**	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 06:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 06:34	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 06:34	1
Chromium	**0.11**		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:34	1
Cobalt	**0.017**	**J**	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:34	1
Copper	**0.088**		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:34	1
Iron	**91**		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 06:34	1
Lead	**0.24**		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 06:34	1

Client Sample ID: APS-1(0-1)-030416
Date Collected: 03/04/16 14:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-5
Matrix: Solid
Percent Solids: 84.3

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.64		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:34	1
Nickel	0.063		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:34	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 06:34	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:34	1
Zinc	0.48	J	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 06:34	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Arsenic	3.8		0.50	0.23	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Barium	42		0.50	0.092	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Beryllium	0.37		0.20	0.043	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Cadmium	0.27		0.10	0.029	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Calcium	45000		100	32	mg/Kg	☼	03/06/16 09:10	03/07/16 12:54	10
Chromium	11	B	0.50	0.086	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Cobalt	3.0		0.25	0.057	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Copper	14		0.50	0.11	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Iron	7600	B	10	3.9	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Lead	51		0.25	0.12	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Magnesium	25000		5.0	2.0	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Manganese	180		0.50	0.099	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Nickel	7.9	B	0.50	0.14	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Potassium	570		25	4.1	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Selenium	0.63		0.50	0.25	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Sodium	1100		50	6.6	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Vanadium	13		0.25	0.073	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1
Zinc	58		1.0	0.32	mg/Kg	☼	03/06/16 09:10	03/07/16 10:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/09/16 13:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 14:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	36		19	10	ug/Kg	☼	03/07/16 19:00	03/11/16 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.98		0.200	0.200	SU			03/07/16 16:20	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

GC 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108388

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 2.7

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		**Parameter**
IDOT 039		
Project Location/State	**Lab Project #**	
Wilmington, IL		
Sampler	**Lab PM**	
A. Tuckasz	Dick Wright	

Preservative Key
1. HCL, Cool to 4°
Cool to 4°
ol to 4°
ol to 4°
, Cool to 4°

500-108388 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH	PCB's				Comments
1		VLGO-1(0-1)-030416	3/4/16	1344	2	S	X	X	X	X	X	X				
2		VLGO-1(0-1)-030416D	3/4/16	1344	2	S	X	X	X	X	X	X				
3		VLGO-2(0-1)-030416	3/4/16	1405	2	S	X	X	X	X	X	X				
4		VLGO-3(0-1)-030416	3/4/16	1420	2	S	X	X	X	X	X	X				
5		APS-1(0-1)-030416	3/4/16	1435	2	S	X	X	X	X	X					
6		PP-1(0-1)-030416	3/4/16	1515	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI

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:

TAL-4124-500 (1209)

3/14/2016

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: 500-108438-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/16/2016 11:25:45 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: APS-3(0-1)-030716
Date Collected: 03/07/16 09:18
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-3
Matrix: Solid
Percent Solids: 84.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 13:29	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 13:29	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/09/16 13:29	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 13:29	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 13:29	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 13:29	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/09/16 13:29	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 13:29	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/09/16 13:29	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 13:29	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 13:29	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 13:29	1
cis-1,3-Dichloropropene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 13:29	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/09/16 13:29	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 13:29	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/09/16 13:29	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/09/16 13:29	1
1,2-Dichloropropane	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 13:29	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 13:29	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 13:29	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/09/16 13:29	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/09/16 13:29	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 13:29	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 13:29	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 13:29	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 13:29	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/09/16 13:29	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/09/16 13:29	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/09/16 13:29	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/09/16 13:29	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/09/16 13:29	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 13:29	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/09/16 13:29	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/09/16 13:29	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/09/16 13:29	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/09/16 13:29*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/09/16 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*03/09/16 13:29*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/09/16 13:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1

Client Sample ID: APS-3(0-1)-030716
Date Collected: 03/07/16 09:18
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-3
Matrix: Solid
Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Acenaphthene	**6.9**	**J**	38	6.9	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Acenaphthylene	**19**	**J**	38	5.0	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Anthracene	**20**	**J**	38	6.4	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Benzo[a]anthracene	**120**		38	5.1	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Benzo[a]pyrene	**150**		38	7.4	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Benzo[b]fluoranthene	**260**		38	8.3	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Benzo[g,h,i]perylene	**52**		38	12	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Benzo[k]fluoranthene	**100**		38	11	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Carbazole	<190		190	96	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Chrysene	**140**		38	10	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Dibenz(a,h)anthracene	**13**	**J**	38	7.4	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Fluoranthene	**270**		38	7.1	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Fluorene	**6.5**	**J**	38	5.4	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1

Client Sample ID: APS-3(0-1)-030716
Date Collected: 03/07/16 09:18
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-3
Matrix: Solid
Percent Solids: 84.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**68**		38	9.9	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Isophorone	<190		190	43	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Phenanthrene	**93**		38	5.3	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Phenol	<190		190	85	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1
Pyrene	**220**		38	7.6	ug/Kg	☼	03/09/16 07:22	03/11/16 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*42*		*35 - 137*	*03/09/16 07:22*	*03/11/16 22:50*	*1*
2-Fluorobiphenyl	*71*		*25 - 119*	*03/09/16 07:22*	*03/11/16 22:50*	*1*
2-Fluorophenol	*84*		*25 - 110*	*03/09/16 07:22*	*03/11/16 22:50*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*03/09/16 07:22*	*03/11/16 22:50*	*1*
Phenol-d5	*82*		*31 - 110*	*03/09/16 07:22*	*03/11/16 22:50*	*1*
Terphenyl-d14	*84*		*36 - 134*	*03/09/16 07:22*	*03/11/16 22:50*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/13/16 00:28	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		03/12/16 12:32	03/13/16 00:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/13/16 00:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:32	03/13/16 00:28	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:28	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:28	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:28	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/13/16 00:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/13/16 00:28	1
Manganese	**0.53**		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:28	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/13/16 00:28	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:28	1
Zinc	**0.024**	**J B**	0.50	0.020	mg/L		03/12/16 12:32	03/13/16 00:28	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.032**	**J**	0.050	0.010	mg/L		03/12/16 12:37	03/13/16 09:05	1
Barium	**0.55**		0.50	0.050	mg/L		03/12/16 12:37	03/13/16 09:05	1
Beryllium	**0.0040**		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 09:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 09:05	1
Chromium	**0.12**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:05	1
Cobalt	**0.019**	**J**	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:05	1
Copper	**0.071**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:05	1
Iron	**110**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 09:05	1
Lead	**0.14**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 09:05	1
Manganese	**0.51**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:05	1
Nickel	**0.075**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 09:05	1

Client Sample ID: APS-3(0-1)-030716
Date Collected: 03/07/16 09:18
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-3
Matrix: Solid
Percent Solids: 84.2

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:05	1
Zinc	**0.40**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 09:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Arsenic	**7.3**		0.48	0.22	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Barium	**66**		0.48	0.088	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Beryllium	**0.44**		0.19	0.042	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Cadmium	**0.16**		0.096	0.028	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Calcium	**6400**	**B**	9.6	3.1	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Chromium	**12**	**B**	0.59	0.10	mg/Kg	☼	03/11/16 15:54	03/12/16 19:57	1
Cobalt	**4.1**		0.24	0.054	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Copper	**9.3**		0.48	0.10	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Iron	**12000**	**B**	9.6	3.7	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Lead	**24**		0.24	0.12	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Magnesium	**3900**		4.8	1.9	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Manganese	**160**	**B**	0.48	0.095	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Nickel	**11**	**B**	0.48	0.13	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Potassium	**580**		24	3.9	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Selenium	<0.48		0.48	0.24	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Sodium	**1800**		48	6.3	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Vanadium	**18**		0.24	0.070	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1
Zinc	**50**		0.96	0.30	mg/Kg	☼	03/10/16 09:27	03/10/16 22:50	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**30**		18	9.4	ug/Kg	☼	03/10/16 19:30	03/13/16 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.52**		0.200	0.200	SU			03/09/16 19:45	1

Client Sample ID: APS-4(0-1)-030716
Date Collected: 03/07/16 09:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-4
Matrix: Solid
Percent Solids: 83.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/09/16 13:54	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/09/16 13:54	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/09/16 13:54	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 13:54	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/09/16 13:54	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/09/16 13:54	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/09/16 13:54	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 13:54	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/09/16 13:54	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 13:54	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 13:54	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 13:54	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 13:54	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/09/16 13:54	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 13:54	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/09/16 13:54	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/09/16 13:54	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/09/16 13:54	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/09/16 13:54	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/09/16 13:54	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/09/16 13:54	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/09/16 13:54	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/09/16 13:54	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 13:54	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 13:54	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 13:54	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/09/16 13:54	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 13:54	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/09/16 13:54	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/09/16 13:54	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/09/16 13:54	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 13:54	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/09/16 13:54	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/09/16 13:54	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/09/16 13:54	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/09/16 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/09/16 13:54*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/09/16 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*		*03/09/16 13:54*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/09/16 13:54*	*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	43	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1

Client Sample ID: APS-4(0-1)-030716
Date Collected: 03/07/16 09:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-4
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2-Methylnaphthalene	**7.9**	**J**	39	7.3	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2-Methylphenol	<200		200	63	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
4,6-Dinitro-2-methylphenol	<800		800	320	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Acenaphthene	**7.7**	**J**	39	7.1	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Acenaphthylene	**23**	**J**	39	5.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Anthracene	**37**	**J**	39	6.6	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Benzo[a]anthracene	**190**		39	5.3	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Benzo[a]pyrene	**250**	*	39	7.6	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Benzo[b]fluoranthene	**490**	*	39	8.5	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Benzo[g,h,i]perylene	**93**	*	39	13	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Benzo[k]fluoranthene	**180**	*	39	12	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Carbazole	<200		200	99	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Chrysene	**240**		39	11	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Dibenz(a,h)anthracene	**23**	**J ***	39	7.6	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Dibenzofuran	<200		200	46	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Fluoranthene	**460**		39	7.3	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Fluorene	**8.6**	**J**	39	5.6	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Hexachloroethane	<200		200	60	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1

Client Sample ID: APS-4(0-1)-030716
Date Collected: 03/07/16 09:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-4
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**120**	*	39	10	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Isophorone	<200		200	44	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Naphthalene	<39		39	6.1	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
N-Nitrosodi-n-propylamine	<80		80	48	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Phenanthrene	**150**		39	5.5	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Phenol	<200		200	88	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1
Pyrene	**410**		39	7.8	ug/Kg	☼	03/09/16 07:22	03/11/16 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*41*		*35 - 137*	*03/09/16 07:22*	*03/11/16 23:19*	*1*
2-Fluorobiphenyl	*72*		*25 - 119*	*03/09/16 07:22*	*03/11/16 23:19*	*1*
2-Fluorophenol	*83*		*25 - 110*	*03/09/16 07:22*	*03/11/16 23:19*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*03/09/16 07:22*	*03/11/16 23:19*	*1*
Phenol-d5	*85*		*31 - 110*	*03/09/16 07:22*	*03/11/16 23:19*	*1*
Terphenyl-d14	*92*		*36 - 134*	*03/09/16 07:22*	*03/11/16 23:19*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:32	03/13/16 00:35	1
Barium	**0.26**	J	0.50	0.050	mg/L		03/12/16 12:32	03/13/16 00:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:32	03/13/16 00:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:32	03/13/16 00:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:35	1
Copper	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:35	1
Iron	<0.40		0.40	0.20	mg/L		03/12/16 12:32	03/13/16 00:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/12/16 12:32	03/13/16 00:35	1
Manganese	**0.092**		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:32	03/13/16 00:35	1
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:32	03/13/16 00:35	1
Zinc	**0.10**	J B	0.50	0.020	mg/L		03/12/16 12:32	03/13/16 00:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/12/16 12:37	03/13/16 09:12	1
Barium	**0.10**	J	0.50	0.050	mg/L		03/12/16 12:37	03/13/16 09:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/12/16 12:37	03/13/16 09:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/12/16 12:37	03/13/16 09:12	1
Chromium	**0.022**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:12	1
Copper	**0.020**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:12	1
Iron	**18**		0.40	0.20	mg/L		03/12/16 12:37	03/13/16 09:12	1
Lead	**0.051**		0.0075	0.0075	mg/L		03/12/16 12:37	03/13/16 09:12	1
Manganese	**0.21**		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:12	1
Nickel	**0.016**	J	0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/12/16 12:37	03/13/16 09:12	1

Client Sample ID: APS-4(0-1)-030716

Date Collected: 03/07/16 09:35
Date Received: 03/07/16 16:35

Lab Sample ID: 500-108438-4

Matrix: Solid
Percent Solids: 83.3

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/12/16 12:37	03/13/16 09:12	1
Zinc	**0.14**	**J**	0.50	0.020	mg/L		03/12/16 12:37	03/13/16 09:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	1.1	0.23	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Arsenic	**3.4**		0.56	0.26	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Barium	**36**		0.56	0.10	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Beryllium	**0.31**		0.23	0.049	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Cadmium	**0.28**		0.11	0.033	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Calcium	**80000**	**B**	110	36	mg/Kg	☼	03/10/16 09:27	03/11/16 01:13	10
Chromium	**15**	**B**	5.6	0.97	mg/Kg	☼	03/11/16 15:54	03/12/16 22:47	10
Cobalt	**4.1**		0.28	0.064	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Copper	**12**		0.56	0.12	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Iron	**8000**	**B**	11	4.3	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Lead	**46**		0.28	0.14	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Magnesium	**34000**		5.6	2.3	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Manganese	**250**	**B**	0.56	0.11	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Nickel	**9.3**	**B**	0.56	0.15	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Potassium	**660**		28	4.6	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Selenium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Silver	<0.28		0.28	0.066	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Sodium	**530**		56	7.4	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Thallium	<0.56		0.56	0.28	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Vanadium	**12**		0.28	0.082	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1
Zinc	**77**		1.1	0.36	mg/Kg	☼	03/10/16 09:27	03/10/16 22:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/14/16 15:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/13/16 16:00	03/15/16 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**25**		20	10	ug/Kg	☼	03/10/16 19:30	03/13/16 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.20**		0.200	0.200	SU			03/09/16 19:49	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108438-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-108438 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.1, 2.4

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total metals	TCLP/SPLP metals	pH					Comments
1		APS-2(0-1)-030716	3/7/16	0852	2	S		X	X	X	X	X					
2		APS-2(0-1)-030716 D	3/7/16	0852	2	S		X	X	X	X	X					
3		APS-3(0-1)-030716	3/7/16	0918	2	S		X	X	X	X	X					
4		APS-4(0-1)-030716	3/7/16	0935	2	S		X	X	X	X	X					
5		ALSS-1(0-1)-030716	3/7/16	0956	2	S		X	X	X	X	X					
6		ALSS-2(0-1)-030716	3/7/16	1007	2	S		X	X	X	X	X					
7		RS4-1(0-1)-030716	3/7/16	1020	2	S		X	X	X	X	X					
8		RS4-2(0-1)-030716	3/7/16	1030	2	S		X	X	X	X	X					
9		RS4-3(0-1)-030716	3/7/16	1050	2	S		X	X	X	X	X					
10		RS4-4(0-1)-030716	3/7/16	1110	2	S		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	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHI	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/16/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubkumar
Company: Weston Solutions
Address: 300 Plaza Cir, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address: SAME
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108438
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler:

Client: Weston Solutions
Client Project #:
Project Name: IDOT 039
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Tuckasz
Lab PM: Rick Weight

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOC	SVOC	Total Metals	TCLP/SPLP Metals	PID					Comments
11		AL48-1(0-1)-030716	3/7/16	1130	2	S		X	X	X	X	X					
12		AL48-1(0-1)-030716D	3/7/16	1130	2	S		X	X	X	X	X					
13		AL48-2(0-1)-030716	3/7/16	1144	2	S		X	X	X	X	X					
14		AL48-3(0-1)-030716	3/7/16	1200	2	S		X	X	X	X	X					
15		VL53-1(0-1)-030716	3/7/16	1215	2	S		X	X	X	X	X					
16		VL53-2(0-1)-030716	3/7/16	1310	2	S		X	X	X	X	X					
17		VL53-3(0-1)-030716	3/7/16	1320	2	S		X	X	X	X	X					
18		VL53-4(0-1)-030716	3/7/16	1335	2	S		X	X	X	X	X					
19		VL53-5(0-1)-030716	3/7/16	1352	2	S		X	X	X	X	X					
20		RS2-1(0-1)-030716	3/7/16	1405	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	3/7/16	1550		TA	3/7/16	1550
	TA	3/7/16	1635		TA-CHT	3/7/16	1635

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)
3/16/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

2100 block of S. Water Street (ISGS Site No. 2946-58)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.273085653 (Decimal Degrees) Longitude: -88.125655520 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.273085653 Longitude: -88.125655520

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 VL58-4 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-58. SEE FIGURE 3-3 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108662-1.
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional ~~Geologist~~ Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-58
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL58-4(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	VL58-4	
Depth	0 - 1	
ISGS Site No.	2946-58	
Parameter		
Laboratory pH (s.u.)	8.19	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
2-Methylnaphthalene	14 J	---
Acenaphthylene	28 J	---
Anthracene	8 J	1.20E+07
Benzo(a)anthracene	45	900 / 1100 / 1800
Benzo(a)pyrene	61 J	90 / 1300 / 2100
Benzo(b)fluoranthene	120 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	44 J	---
Benzo(k)fluoranthene	52 J	9000
Chrysene	57	88000
Fluoranthene	72 B	3100000
Indeno(1,2,3-cd)pyrene	41 J	900 / 900 / 1600
Naphthalene, SVOC	6.9 J	1800
Phenanthrene	50 B	---
Pyrene	120	2300000
Total Metals (mg/kg)		
Arsenic, Total	4.2 J-	11.3 / 13
Barium, Total	42 J	1500
Beryllium, Total	0.31 J	22
Cadmium, Total	0.32 J	5.2
Calcium, Total	86000 J	---
Chromium, Total	5.3 J-	21
Cobalt, Total	3.5	20
Copper, Total	7.2 J	2900
Iron, Total	7100 J	15000 / 15900
Lead, Total	75 J-	107
Magnesium, Total	33000 J	325000
Manganese, Total	310 J+	630 / 636
Mercury, Total	0.023	0.89
Nickel, Total	6.6 J	100
Potassium, Total	510 J+	---
Selenium, Total	0.35 J	1.3
Sodium, Total	1700	---
Vanadium, Total	9	550
Zinc, Total	42 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.41 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.59	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	ND	5

Summary Table of ISGS Site No. 2946-58
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL58-4(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	VL58-4	
Depth	0 - 1	
ISGS Site No.	2946-58	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.015 J	0.05
Barium, SPLP	0.31 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.05	0.1
Cobalt, SPLP	0.015 J	1
Copper, SPLP	0.039	0.65
Iron, SPLP	47 J+	5
Lead, SPLP	0.29	0.0075
Manganese, SPLP	0.66	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.037	0.1
Selenium, SPLP	ND	0.05
Zinc, SPLP	0.29 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108662-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 3:07:44 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: VL58-4(0-1)-031016
Date Collected: 03/10/16 10:05
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-9
Matrix: Solid
Percent Solids: 91.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/14/16 14:04	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 14:04	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/14/16 14:04	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:04	1
Bromomethane	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 14:04	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 14:04	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 14:04	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:04	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/14/16 14:04	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:04	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:04	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:04	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 14:04	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/14/16 14:04	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:04	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/14/16 14:04	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 14:04	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 14:04	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 14:04	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 14:04	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/14/16 14:04	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/14/16 14:04	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/14/16 14:04	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:04	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:04	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:04	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/14/16 14:04	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:04	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/14/16 14:04	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 14:04	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 14:04	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:04	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:04	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 14:04	1
Vinyl chloride	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:04	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/14/16 14:04*	*1*
Dibromofluoromethane	*112*		*75 - 120*		*03/14/16 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/14/16 14:04*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*03/14/16 14:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1

Client Sample ID: VL58-4(0-1)-031016
Date Collected: 03/10/16 10:05
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-9
Matrix: Solid
Percent Solids: 91.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2-Methylnaphthalene	**14**	**J**	34	6.4	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2-Methylphenol	<170		170	56	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2-Nitroaniline	<170		170	47	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
3,3'-Dichlorobenzidine	<170		170	49	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
4-Bromophenyl phenyl ether	<170		170	46	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
4-Nitroaniline	<340		340	150	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Acenaphthene	<34		34	6.2	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Acenaphthylene	**28**	**J**	34	4.6	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Anthracene	**8.0**	**J**	34	5.8	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Benzo[a]anthracene	**45**		34	4.7	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Benzo[a]pyrene	**61**	*	34	6.7	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Benzo[b]fluoranthene	**120**	*	34	7.5	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Benzo[g,h,i]perylene	**44**	*	34	11	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Benzo[k]fluoranthene	**52**	*	34	10	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Bis(2-ethylhexyl) phthalate	<170		170	63	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Butyl benzyl phthalate	<170		170	66	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Carbazole	<170		170	87	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Chrysene	**57**		34	9.5	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Dibenz(a,h)anthracene	<34	*	34	6.7	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Dibenzofuran	<170		170	41	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Di-n-butyl phthalate	<170		170	53	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Di-n-octyl phthalate	<170		170	57	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Fluoranthene	**72**	**B**	34	6.4	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Fluorene	<34		34	4.9	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Hexachlorobenzene	<70		70	8.0	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1

Client Sample ID: VL58-4(0-1)-031016
Date Collected: 03/10/16 10:05
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-9
Matrix: Solid
Percent Solids: 91.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**41**	*	34	9.0	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Isophorone	<170		170	39	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Naphthalene	**6.9**	J	34	5.3	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Nitrobenzene	<34		34	8.7	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
N-Nitrosodiphenylamine	<170		170	41	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Phenanthrene	**50**	B	34	4.8	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Phenol	<170		170	77	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1
Pyrene	**120**		34	6.9	ug/Kg	☼	03/14/16 07:02	03/23/16 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*35 - 137*	*03/14/16 07:02*	*03/23/16 02:15*	*1*
2-Fluorobiphenyl	*87*		*25 - 119*	*03/14/16 07:02*	*03/23/16 02:15*	*1*
2-Fluorophenol	*97*		*25 - 110*	*03/14/16 07:02*	*03/23/16 02:15*	*1*
Nitrobenzene-d5	*82*		*25 - 115*	*03/14/16 07:02*	*03/23/16 02:15*	*1*
Phenol-d5	*92*		*31 - 110*	*03/14/16 07:02*	*03/23/16 02:15*	*1*
Terphenyl-d14	*162*	*X*	*36 - 134*	*03/14/16 07:02*	*03/23/16 02:15*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 02:24	1
Barium	**0.41**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 02:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 02:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 02:24	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:24	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:24	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:24	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 02:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 02:24	1
Manganese	**0.59**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:24	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 02:24	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:24	1
Zinc	**0.035**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 02:24	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.015**	J	0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:38	1
Barium	**0.31**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:38	1
Chromium	**0.050**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:38	1
Cobalt	**0.015**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:38	1
Copper	**0.039**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:38	1
Iron	**47**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:38	1
Lead	**0.29**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 12:38	1
Manganese	**0.66**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:38	1
Nickel	**0.037**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:38	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:38	1

Client Sample ID: VL58-4(0-1)-031016

Date Collected: 03/10/16 10:05
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-9

Matrix: Solid
Percent Solids: 91.5

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:38	1
Zinc	**0.29**	**J ^**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 12:38	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.91		0.91	0.19	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Arsenic	**4.2**		0.45	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Barium	**42**		0.45	0.083	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Beryllium	**0.31**		0.18	0.039	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Cadmium	**0.32**		0.091	0.026	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Calcium	**86000**	**B**	91	29	mg/Kg	☼	03/16/16 11:30	03/20/16 02:29	10
Chromium	**5.3**		0.45	0.078	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Cobalt	**3.5**		0.23	0.051	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Copper	**7.2**		0.45	0.099	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Iron	**7100**	**B**	9.1	3.5	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Lead	**75**		0.23	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Magnesium	**33000**	**B**	4.5	1.8	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Manganese	**310**	**B**	0.45	0.090	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Nickel	**6.6**		0.45	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Potassium	**510**		23	3.7	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Selenium	**0.35**	**J**	0.45	0.22	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Sodium	**1700**		45	6.0	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Vanadium	**9.0**		0.23	0.066	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1
Zinc	**42**		0.91	0.29	mg/Kg	☼	03/16/16 11:30	03/19/16 07:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 19:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**23**		17	8.9	ug/Kg	☼	03/18/16 15:00	03/19/16 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.19**		0.200	0.200	SU			03/12/16 15:31	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108662-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.5

500-108662 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

Bill To (optional)
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 3.4

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: Alistair Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (Pres. 7)	SVOCs (Pres. 7)	Total Metals (Pres. 7)	TCLP/SPLP Metals (Pres. 7)	pH (Pres. 7)					Comments
1		VL51-3(0-1)-031016	031016	0835	2	S	X	X	X	X	X					
2		VL51-2(0-1)-031016	↓	0847	↓	↓	↓	↓	↓	↓	↓					
3		VL51-2(0-1)-031016D	↓	0847	↓	↓	↓	↓	↓	↓	↓					
4		VL51-1(0-1)-031016	↓	0900	↓	↓	↓	↓	↓	↓	↓					
5		AL56-4(0-1)-031016	↓	0916	↓	↓	↓	↓	↓	↓	↓					
6		AL56-3(0-1)-031016	↓	0924	↓	↓	↓	↓	↓	↓	↓					
7		AL56-2(0-1)-031016	↓	0935	↓	↓	↓	↓	↓	↓	↓					
8		AL56-1(0-1)-031016	↓	0951	↓	↓	↓	↓	↓	↓	↓					
9		VL58-4(0-1)-031016	↓	1005	↓	↓	↓	↓	↓	↓	↓					
10		VL58-3(0-1)-031016	↓	1020	↓	↓	↓	↓	↓	↓	↓					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days Per contract Other
Requested Due Date ____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	Sherri Scott	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1208)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
		Parameter						VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		VL58-2(0-1)-031016	031016	1025	2	S		X	X	X	X	X					
12		VL58-2(0-1)-031016D		1025				X	X	X	X	X					
13		VL58-1(0-1)-031016		1035				X	X	X	X	X					
14		BP-3(0-1)-031016		1045				X	X	X	X	X					
15		BP-2(0-1)-031016		1100				X	X	X	X	X					
16		BP-1(0-1)-031016		1110				X	X	X	X	X					
17		FPD-7(0-1)-031016		1116				X	X	X	X	X					
18		FPD-6(0-1)-031016		1122				X	X	X	X	X					
19		FPD-5(0-1)-031016		1130				X	X	X	X	X					
20		FPD-4(0-1)-031016		1141				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Quickturnaround Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

2100 block of S. Water Street (ISGS Site No. 2946-59)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.275196019 (Decimal Degrees) Longitude: -88.126462943 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.275196019 Longitude: -88.126462943

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 BP-3 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-59. SEE FIGURE 3-3 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108662-1.
ALSO SEE FIGURE 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-59
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	BP-3(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	BP-3	
Depth	0 - 1	
ISGS Site No.	2946-59	
Parameter		
Laboratory pH (s.u.)	8.78	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
2-Methylnaphthalene	13 J	---
Acenaphthene	29 J	570000
Acenaphthylene	39	---
Anthracene	82	1.20E+07
Benzo(a)anthracene	560 J	900 / 1100 / 1800
Benzo(a)pyrene	680 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1100 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	510 J	---
Benzo(k)fluoranthene	320 J	9000
bis(2-Ethylhexyl)phthalate	77 J	46000
Chrysene	600 J	88000
Fluoranthene	480 B	3100000
Fluorene	22 J	560000
Indeno(1,2,3-cd)pyrene	520 J	900 / 900 / 1600
Naphthalene, SVOC	11 J	1800
Phenanthrene	360 B	---
Pyrene	1800 J	2300000
Total Metals (mg/kg)		
Antimony, Total	0.26 J	5
Arsenic, Total	2.5 J-	11.3 / 13
Barium, Total	26 J	1500
Beryllium, Total	0.24 J	22
Cadmium, Total	0.23 J	5.2
Calcium, Total	140000 J	---
Chromium, Total	6.2 J-	21
Cobalt, Total	2.4	20
Copper, Total	9.2 J	2900
Iron, Total	8900 J	15000 / 15900
Lead, Total	84 J-	107
Magnesium, Total	83000 J	325000
Manganese, Total	210 J+	630 / 636
Mercury, Total	0.018	0.89
Nickel, Total	6.1 J	100
Potassium, Total	550 J+	---
Sodium, Total	1300	---
Vanadium, Total	6.1	550
Zinc, Total	38 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.2 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.01 J	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	0.022	0.0075
Manganese, TCLP	1.2	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.012 J	0.1
Zinc, TCLP	0.15 J	5

Summary Table of ISGS Site No. 2946-59
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	BP-3(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	BP-3	
Depth	0 - 1	
ISGS Site No.	2946-59	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.073 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.021 J	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.025	0.65
Iron, SPLP	14 J+	5
Lead, SPLP	0.16	0.0075
Manganese, SPLP	0.11	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.011 J	0.1
Zinc, SPLP	0.15 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108662-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 3:07:44 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: BP-3(0-1)-031016
Date Collected: 03/10/16 10:45
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-14
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/14/16 16:15	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 16:15	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/14/16 16:15	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 16:15	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/14/16 16:15	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/14/16 16:15	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 16:15	1
Chlorobenzene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 16:15	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/14/16 16:15	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/14/16 16:15	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 16:15	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 16:15	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 16:15	1
Dibromochloromethane	<5.3		5.3	0.61	ug/Kg	☼		03/14/16 16:15	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 16:15	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/14/16 16:15	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 16:15	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/14/16 16:15	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/14/16 16:15	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 16:15	1
2-Hexanone	<5.3		5.3	1.6	ug/Kg	☼		03/14/16 16:15	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/14/16 16:15	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 16:15	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 16:15	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 16:15	1
Styrene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 16:15	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	0.84	ug/Kg	☼		03/14/16 16:15	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 16:15	1
Toluene	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 16:15	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 16:15	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/14/16 16:15	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 16:15	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/14/16 16:15	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/14/16 16:15	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 16:15	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/14/16 16:15*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/14/16 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/14/16 16:15*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*03/14/16 16:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1

Client Sample ID: BP-3(0-1)-031016
Date Collected: 03/10/16 10:45
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-14
Matrix: Solid
Percent Solids: 94.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	78	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2-Methylnaphthalene	**13**	**J**	34	6.3	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
4,6-Dinitro-2-methylphenol	<690		690	280	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Acenaphthene	**29**	**J**	34	6.2	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Acenaphthylene	**39**		34	4.5	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Anthracene	**82**		34	5.7	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Benzo[a]anthracene	**560**	*****	34	4.6	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Benzo[a]pyrene	**680**	*****	34	6.6	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Benzo[b]fluoranthene	**1100**	*****	34	7.4	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Benzo[g,h,i]perylene	**510**	*****	34	11	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Benzo[k]fluoranthene	**320**	*****	34	10	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Bis(2-ethylhexyl) phthalate	**77**	**J ***	170	63	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Butyl benzyl phthalate	<170	*	170	65	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Carbazole	<170		170	86	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Chrysene	**600**	*****	34	9.4	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Dibenz(a,h)anthracene	<34	*	34	6.6	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Fluoranthene	**480**	**B**	34	6.4	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Fluorene	**22**	**J**	34	4.8	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Hexachlorobenzene	<69		69	8.0	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1

Client Sample ID: BP-3(0-1)-031016
Date Collected: 03/10/16 10:45
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-14
Matrix: Solid
Percent Solids: 94.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	520	*	34	8.9	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Isophorone	<170		170	39	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Naphthalene	11	J	34	5.3	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Phenanthrene	360	B	34	4.8	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Phenol	<170		170	76	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1
Pyrene	1800	*	34	6.8	ug/Kg	☼	03/14/16 07:02	03/23/16 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*35 - 137*	*03/14/16 07:02*	*03/23/16 07:58*	*1*
2-Fluorobiphenyl	*94*		*25 - 119*	*03/14/16 07:02*	*03/23/16 07:58*	*1*
2-Fluorophenol	*99*		*25 - 110*	*03/14/16 07:02*	*03/23/16 07:58*	*1*
Nitrobenzene-d5	*81*		*25 - 115*	*03/14/16 07:02*	*03/23/16 07:58*	*1*
Phenol-d5	*96*		*31 - 110*	*03/14/16 07:02*	*03/23/16 07:58*	*1*
Terphenyl-d14	*221*	*X *	*36 - 134*	*03/14/16 07:02*	*03/23/16 07:58*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 02:59	1
Barium	0.20	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 02:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 02:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 02:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:59	1
Cobalt	0.010	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:59	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:59	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 02:59	1
Lead	0.022		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 02:59	1
Manganese	1.2		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:59	1
Nickel	0.012	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 02:59	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 02:59	1
Zinc	0.15	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 02:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:59	1
Barium	0.073	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:59	1
Chromium	0.021	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:59	1
Copper	0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:59	1
Iron	14		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:59	1
Lead	0.16		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 12:59	1
Manganese	0.11		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:59	1
Nickel	0.011	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:59	1

Client Sample ID: BP-3(0-1)-031016
Date Collected: 03/10/16 10:45
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-14
Matrix: Solid
Percent Solids: 94.0

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:59	1
Zinc	**0.15**	**J ^**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 12:59	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	0.86	0.18	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Arsenic	**2.5**		0.43	0.20	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Barium	**26**		0.43	0.079	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Beryllium	**0.24**		0.17	0.037	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Cadmium	**0.23**		0.086	0.025	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Calcium	**140000**	**B**	86	28	mg/Kg	☼	03/16/16 11:30	03/20/16 03:00	10
Chromium	**6.2**		0.43	0.074	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Cobalt	**2.4**		0.22	0.049	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Copper	**9.2**		0.43	0.093	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Iron	**8900**	**B**	8.6	3.3	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Lead	**84**		0.22	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Magnesium	**83000**	**B**	43	17	mg/Kg	☼	03/16/16 11:30	03/20/16 03:00	10
Manganese	**210**	**B**	0.43	0.085	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Nickel	**6.1**		0.43	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Potassium	**550**		22	3.5	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Selenium	<0.43		0.43	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Silver	<0.22		0.22	0.050	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Sodium	**1300**		43	5.7	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Thallium	<0.43		0.43	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Vanadium	**6.1**		0.22	0.063	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1
Zinc	**38**		0.86	0.27	mg/Kg	☼	03/16/16 11:30	03/19/16 07:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:20	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 19:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**18**		15	8.0	ug/Kg	☼	03/18/16 15:00	03/19/16 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.78**		0.200	0.200	SU			03/12/16 15:55	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108662-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTA[L TESTING]

2417 Bond Street, University Park, IL 6[...]
Phone: 708.534.5200 Fax: 708.5[...]

500-108662 COC

Report To (optional)		Bill To (optional)	
Contact:	S. Babusukumar	Contact:	SAME
Company:	Weston Solutions	Company:	↓
Address:	Mundelein, IL	Address:	
Address:		Address:	
Phone:	224-864-7250	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Chain of Custody Record

Lab Job #: 500-108662

Chain of Custody Number:

Page 1 of 2

Temperature °C of Cooler: 3.4

Client	WESTON SOLUTIONS
Client Project #	
Project Name	IDOT039-IL Rte 102
Project Location/State	Wilmington, IL
Lab Project #	
Sampler	Alistair Simpson
Lab PM	D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (Pres. 7)	SVOCs (Pres. 7)	Total Metals (Pres. 7)	TCLP/SPLP Metals (Pres. 7)	pH (Pres. 7)					Comments
1		VL51-3(0-1)-031016	031016	0835	2	S	X	X	X	X	X					
2		VL51-2(0-1)-031016	↓	0847	↓	↓	↓	↓	↓	↓	↓					
3		VL51-2(0-1)-031016D	↓	0847	↓	↓	↓	↓	↓	↓	↓					
4		VL51-1(0-1)-031016	↓	0900	↓	↓	↓	↓	↓	↓	↓					
5		AL56-4(0-1)-031016	↓	0916	↓	↓	↓	↓	↓	↓	↓					
6		AL56-3(0-1)-031016	↓	0924	↓	↓	↓	↓	↓	↓	↓					
7		AL56-2(0-1)-031016	↓	0935	↓	↓	↓	↓	↓	↓	↓					
8		AL56-1(0-1)-031016	↓	0951	↓	↓	↓	↓	↓	↓	↓					
9		VL58-4(0-1)-031016	↓	1005	↓	↓	↓	↓	↓	↓	↓					
10		VL58-3(0-1)-031016	↓	1020	↓	↓	↓	↓	↓	↓	↓					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Per contract Other
Requested Due Date __________

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	Sherri Scott	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1208)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
		Parameter						VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		VL58-2(0-1)-031016	031016	1025	2	S		X	X	X	X	X					
12		VL58-2(0-1)-031016D		1025				X	X	X	X	X					
13		VL58-1(0-1)-031016		1035				X	X	X	X	X					
14		BP-3(0-1)-031016		1045				X	X	X	X	X					
15		BP-2(0-1)-031016		1100				X	X	X	X	X					
16		BP-1(0-1)-031016		1110				X	X	X	X	X					
17		FPD-7(0-1)-031016		1116				X	X	X	X	X					
18		FPD-6(0-1)-031016		1122				X	X	X	X	X					
19		FPD-5(0-1)-031016		1130				X	X	X	X	X					
20		FPD-4(0-1)-031016		1141				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Quickturnaround Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

2100 block of S. Water Street (ISGS Site No. 2946-60)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.276444489 (Decimal Degrees) Longitude: -88.127062519 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.276444489 Longitude: -88.127062519

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 VL60-1 AND VL60-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-60. SEE FIGURE 3-2 AND 3-3 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108388-1.
ALSO SEE FIGURE 4-2 AND 4-3 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-60
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL60-1(0-1)-030416	VL60-1(0-1)-030416D	VL60-2(0-1)-030416	Soil Reference Concentrations[A]
Sample Date	3/4/2016	3/4/2016	3/4/2016	
Location ID	VL60-1	VL60-1	VL60-2	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-60	2946-60	2946-60	
Parameter				
Laboratory pH (s.u.)	8.04	7.85	7.49	<6.25,>9.0
VOCs (ug/kg)	None Detected			
PCBs (ug/kg)				
Aroclor-1260	ND	ND	17 J	1000
SVOCs (ug/kg)				
2-Methylnaphthalene	12 J	7 J	12 J	---
Acenaphthene	30 J	24 J	44	570000
Acenaphthylene	93	120	120	---
Anthracene	90	80	150	1.20E+07
Benzo(a)anthracene	590	540	910	900 / 1100 / 1800
Benzo(a)pyrene	810 J	700	1100	90 / 1300 / 2100
Benzo(b)fluoranthene	1700 J	1100	1900	900 / 1500 / 2100
Benzo(g,h,i)perylene	400 J	380 J	450	---
Benzo(k)fluoranthene	500 J	390	720	9000
bis(2-Ethylhexyl)phthalate	110 J	ND	ND	46000
Chrysene	700	590	1000	88000
Dibenzo(a,h)anthracene	73 J	25 J	82 J	90 / 200 / 420
Dibenzofuran	ND	ND	ND	---
Fluoranthene	1000 J-	900	1600	3100000
Fluorene	25 J	29 J	54	560000
Indeno(1,2,3-cd)pyrene	370 J	340	520	900 / 900 / 1600
Naphthalene, SVOC	13 J	ND	9.5 J	1800
Phenanthrene	340	340	700	---
Pyrene	1500 J+	1600	1700	2300000
Total Metals (mg/kg)				
Antimony, Total	0.26 J	0.24 J	ND	5
Arsenic, Total	3	3.5	2.8	11.3 / 13
Barium, Total	78 J	50 J	40 J	1500
Beryllium, Total	0.28	0.27	0.29	22
Cadmium, Total	0.22	0.27	0.3	5.2
Calcium, Total	81000 J	70000 J	71000 J	---
Chromium, Total	8 J-	12 J-	24 J-	21
Cobalt, Total	2.8 J	3.3 J	2.6 J	20
Copper, Total	11 J-	13 J-	13 J-	2900
Iron, Total	6600 J+	7900 J+	7100 J+	15000 / 15900
Lead, Total	47 J	55 J	150 J	107
Magnesium, Total	41000 J	32000 J	39000 J	325000
Manganese, Total	270 J	310 J	220 J	630 / 636
Mercury, Total	0.032	0.037	0.04	0.89
Nickel, Total	7 B	8.1 B	7.2 B	100
Potassium, Total	700 J	670 J	530 J	---
Selenium, Total	0.37 J	0.39 J	0.53 J	1.3
Sodium, Total	1100	1100	1100	---
Vanadium, Total	9.5	11	10	550
Zinc, Total	50 J	59 J	63 J	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.31 J	0.35 J	0.28 J	2
Beryllium, TCLP	ND	ND	ND	0.004
Cadmium, TCLP	0.0031 J	0.0031 J	0.0036 J	0.005
Chromium, TCLP	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	0.65
Iron, TCLP	0.74	ND	ND	5
Lead, TCLP	ND	ND	ND	0.0075
Manganese, TCLP	1	1.1	0.37	0.15
Mercury, TCLP	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	5

Summary Table of ISGS Site No. 2946-60
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL60-1(0-1)-030416	VL60-1(0-1)-030416D	VL60-2(0-1)-030416	Soil Reference Concentrations[A]
Sample Date	3/4/2016	3/4/2016	3/4/2016	
Location ID	VL60-1	VL60-1	VL60-2	
Depth	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-60	2946-60	2946-60	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	0.024 J	0.023 J	0.02 J	0.05
Barium, SPLP	0.26 J	0.36 J	0.2 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	0.069	0.086	0.058	0.1
Cobalt, SPLP	0.011 J	0.012 J	0.01 J	1
Copper, SPLP	0.051	0.059	0.056	0.65
Iron, SPLP	54 J+	63 J+	49 J+	5
Lead, SPLP	0.18	0.2	0.29	0.0075
Manganese, SPLP	0.6	0.69	0.52	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.039	0.045	0.033	0.1
Selenium, SPLP	ND	ND	ND	0.05
Zinc, SPLP	0.37 J	0.48 J	0.34 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108388-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/14/2016 2:39:41 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: VL60-1(0-1)-030416
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-1
Matrix: Solid
Percent Solids: 87.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/05/16 16:55	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:55	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/05/16 16:55	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:55	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 16:55	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 16:55	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:55	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:55	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/05/16 16:55	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 16:55	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:55	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:55	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:55	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/05/16 16:55	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:55	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/05/16 16:55	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/05/16 16:55	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 16:55	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 16:55	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:55	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/05/16 16:55	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/05/16 16:55	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 16:55	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:55	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:55	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:55	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/05/16 16:55	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/05/16 16:55	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/05/16 16:55	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:55	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/05/16 16:55	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/05/16 16:55	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/05/16 16:55	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/05/16 16:55	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/05/16 16:55	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/05/16 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/05/16 16:55*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/05/16 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*03/05/16 16:55*	*1*
Toluene-d8 (Surr)	*109*		*75 - 122*		*03/05/16 16:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1

Client Sample ID: VL60-1(0-1)-030416
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-1
Matrix: Solid
Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2,4-Dinitrophenol	<730	F1	730	640	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2-Methylnaphthalene	**12**	**J**	36	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
3,3'-Dichlorobenzidine	<180	F1	180	51	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
4,6-Dinitro-2-methylphenol	<730	F1	730	290	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
4-Bromophenyl phenyl ether	<180	F1	180	48	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Acenaphthene	**30**	**J**	36	6.5	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Acenaphthylene	**93**		36	4.8	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Anthracene	**90**		36	6.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Benzo[a]anthracene	**590**		36	4.9	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Benzo[a]pyrene	**810**	*	36	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Benzo[b]fluoranthene	**1700**	* F1	36	7.9	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Benzo[g,h,i]perylene	**400**	*	36	12	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Benzo[k]fluoranthene	**500**	*	36	11	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Bis(2-ethylhexyl) phthalate	**110**	**J F1**	180	66	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Butyl benzyl phthalate	<180	F1	180	69	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Chrysene	**700**		36	9.9	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Dibenz(a,h)anthracene	**73**	*	36	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Di-n-octyl phthalate	<180	F1	180	59	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Fluoranthene	**1000**	**F1**	36	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Fluorene	**25**	**J**	36	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Hexachlorobenzene	<73	F1	73	8.4	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Hexachlorocyclopentadiene	<730	F1	730	210	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Hexachloroethane	<180	F1	180	55	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1

Client Sample ID: VL60-1(0-1)-030416
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-1
Matrix: Solid
Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**370**	*	36	9.4	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Naphthalene	**13**	J	36	5.6	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
N-Nitrosodiphenylamine	<180	F1	180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Phenanthrene	**340**		36	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1
Pyrene	**1500**	F1	36	7.2	ug/Kg	☼	03/07/16 16:59	03/09/16 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*125*		*35 - 137*	*03/07/16 16:59*	*03/09/16 04:05*	*1*
2-Fluorobiphenyl	*93*		*25 - 119*	*03/07/16 16:59*	*03/09/16 04:05*	*1*
2-Fluorophenol	*79*		*25 - 110*	*03/07/16 16:59*	*03/09/16 04:05*	*1*
Nitrobenzene-d5	*82*		*25 - 115*	*03/07/16 16:59*	*03/09/16 04:05*	*1*
Phenol-d5	*81*		*31 - 110*	*03/07/16 16:59*	*03/09/16 04:05*	*1*
Terphenyl-d14	*181*	*X*	*36 - 134*	*03/07/16 16:59*	*03/09/16 04:05*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<18		18	6.4	ug/Kg	☼	03/07/16 15:14	03/08/16 18:30	1
PCB-1221	<18		18	7.9	ug/Kg	☼	03/07/16 15:14	03/08/16 18:30	1
PCB-1232	<18		18	7.9	ug/Kg	☼	03/07/16 15:14	03/08/16 18:30	1
PCB-1242	<18		18	5.9	ug/Kg	☼	03/07/16 15:14	03/08/16 18:30	1
PCB-1248	<18		18	7.1	ug/Kg	☼	03/07/16 15:14	03/08/16 18:30	1
PCB-1254	<18		18	3.9	ug/Kg	☼	03/07/16 15:14	03/08/16 18:30	1
PCB-1260	<18		18	8.8	ug/Kg	☼	03/07/16 15:14	03/08/16 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*48 - 142*	*03/07/16 15:14*	*03/08/16 18:30*	*1*
Tetrachloro-m-xylene	*92*		*50 - 116*	*03/07/16 15:14*	*03/08/16 18:30*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:47	03/09/16 13:40	1
Barium	**0.31**	J	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 13:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 13:40	1
Cadmium	**0.0031**	J	0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 13:40	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:40	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:40	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:40	1
Iron	**0.74**		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 13:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 13:40	1
Manganese	**1.0**		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:40	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:40	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 13:40	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:40	1
Zinc	**0.13**	J B	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 13:40	1

Client Sample ID: VL60-1(0-1)-030416
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-1
Matrix: Solid
Percent Solids: 87.5

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.024	J	0.050	0.010	mg/L		03/09/16 08:45	03/10/16 05:30	1
Barium	0.26	J	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 05:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 05:30	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 05:30	1
Chromium	0.069		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:30	1
Cobalt	0.011	J	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:30	1
Copper	0.051		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:30	1
Iron	54		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 05:30	1
Lead	0.18		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 05:30	1
Manganese	0.60		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:30	1
Nickel	0.039		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 05:30	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:30	1
Zinc	0.37	J	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 05:30	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J	0.91	0.19	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Arsenic	3.0		0.45	0.21	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Barium	78		0.45	0.083	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Beryllium	0.28		0.18	0.039	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Cadmium	0.22		0.091	0.026	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Calcium	81000		91	29	mg/Kg	☼	03/06/16 09:10	03/07/16 12:26	10
Chromium	8.0	B	0.45	0.078	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Cobalt	2.8		0.23	0.051	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Copper	11		0.45	0.098	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Iron	6600	B	9.1	3.5	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Lead	47		0.23	0.11	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Magnesium	41000		4.5	1.8	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Manganese	270		0.45	0.090	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Nickel	7.0	B	0.45	0.12	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Potassium	700		23	3.7	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Selenium	0.37	J	0.45	0.22	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Sodium	1100		45	6.0	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Vanadium	9.5		0.23	0.066	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1
Zinc	50		0.91	0.29	mg/Kg	☼	03/06/16 09:10	03/07/16 10:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/09/16 13:10	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 13:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	32		18	9.2	ug/Kg	☼	03/07/16 19:00	03/11/16 09:54	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Client Sample ID: VL60-1(0-1)-030416
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-1
Matrix: Solid
Percent Solids: 87.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.04		0.200	0.200	SU			03/07/16 16:02	1

Client Sample ID: VL60-1(0-1)-030416D
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-2
Matrix: Solid
Percent Solids: 86.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 17:21	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 17:21	1
Bromodichloromethane	<5.8		5.8	0.97	ug/Kg	☼		03/05/16 17:21	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:21	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:21	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:21	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:21	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:21	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/05/16 17:21	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 17:21	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:21	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:21	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 17:21	1
Dibromochloromethane	<5.8		5.8	0.66	ug/Kg	☼		03/05/16 17:21	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:21	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/05/16 17:21	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:21	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 17:21	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 17:21	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:21	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/05/16 17:21	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/05/16 17:21	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:21	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:21	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:21	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:21	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/05/16 17:21	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:21	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/05/16 17:21	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:21	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 17:21	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 17:21	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 17:21	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 17:21	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:21	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/05/16 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/05/16 17:21*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/05/16 17:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/05/16 17:21*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/05/16 17:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1

Client Sample ID: VL60-1(0-1)-030416D
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-2
Matrix: Solid
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	<360		360	83	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2-Methylnaphthalene	**7.0**	**J**	36	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Acenaphthene	**24**	**J**	36	6.5	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Acenaphthylene	**120**		36	4.8	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Anthracene	**80**		36	6.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Benzo[a]anthracene	**540**		36	4.9	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Benzo[g,h,i]perylene	**380**	*	36	12	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Bis(2-ethylhexyl) phthalate	<180		180	66	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Butyl benzyl phthalate	<180		180	69	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Chrysene	**590**		36	9.9	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Dibenz(a,h)anthracene	**25**	**J ***	36	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Fluoranthene	**900**		36	6.7	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Fluorene	**29**	**J**	36	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Naphthalene	<36		36	5.6	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1

Client Sample ID: VL60-1(0-1)-030416D
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-2
Matrix: Solid
Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Phenanthrene	**340**		36	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1
Pyrene	**1600**		36	7.2	ug/Kg	☼	03/07/16 16:59	03/09/16 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*123*		*35 - 137*	*03/07/16 16:59*	*03/09/16 04:32*	*1*
2-Fluorobiphenyl	*90*		*25 - 119*	*03/07/16 16:59*	*03/09/16 04:32*	*1*
2-Fluorophenol	*77*		*25 - 110*	*03/07/16 16:59*	*03/09/16 04:32*	*1*
Nitrobenzene-d5	*77*		*25 - 115*	*03/07/16 16:59*	*03/09/16 04:32*	*1*
Phenol-d5	*85*		*31 - 110*	*03/07/16 16:59*	*03/09/16 04:32*	*1*
Terphenyl-d14	*203*	*X*	*36 - 134*	*03/07/16 16:59*	*03/09/16 04:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**700**		180	35	ug/Kg	☼	03/07/16 16:59	03/10/16 13:35	5
Benzo[b]fluoranthene	**1100**		180	39	ug/Kg	☼	03/07/16 16:59	03/10/16 13:35	5
Benzo[k]fluoranthene	**390**		180	53	ug/Kg	☼	03/07/16 16:59	03/10/16 13:35	5
Indeno[1,2,3-cd]pyrene	**340**		180	47	ug/Kg	☼	03/07/16 16:59	03/10/16 13:35	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<18		18	6.5	ug/Kg	☼	03/07/16 15:14	03/08/16 18:45	1
PCB-1221	<18		18	8.1	ug/Kg	☼	03/07/16 15:14	03/08/16 18:45	1
PCB-1232	<18		18	8.0	ug/Kg	☼	03/07/16 15:14	03/08/16 18:45	1
PCB-1242	<18		18	6.0	ug/Kg	☼	03/07/16 15:14	03/08/16 18:45	1
PCB-1248	<18		18	7.2	ug/Kg	☼	03/07/16 15:14	03/08/16 18:45	1
PCB-1254	<18		18	3.9	ug/Kg	☼	03/07/16 15:14	03/08/16 18:45	1
PCB-1260	<18		18	9.0	ug/Kg	☼	03/07/16 15:14	03/08/16 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*48 - 142*	*03/07/16 15:14*	*03/08/16 18:45*	*1*
Tetrachloro-m-xylene	*91*		*50 - 116*	*03/07/16 15:14*	*03/08/16 18:45*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:47	03/09/16 13:45	1
Barium	**0.35**	**J**	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 13:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 13:45	1
Cadmium	**0.0031**	**J**	0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 13:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:45	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:45	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 13:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 13:45	1
Manganese	**1.1**		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:45	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 13:45	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:45	1

Client Sample ID: VL60-1(0-1)-030416D
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-2
Matrix: Solid
Percent Solids: 86.7

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.098	J B	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 13:45	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.023	J	0.050	0.010	mg/L		03/09/16 08:45	03/10/16 05:37	1
Barium	0.36	J	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 05:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 05:37	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 05:37	1
Chromium	0.086		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:37	1
Cobalt	0.012	J	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:37	1
Copper	0.059		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:37	1
Iron	63		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 05:37	1
Lead	0.20		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 05:37	1
Manganese	0.69		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:37	1
Nickel	0.045		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 05:37	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 05:37	1
Zinc	0.48	J F1	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 05:37	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.24	J	1.0	0.22	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Arsenic	3.5		0.52	0.24	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Barium	50		0.52	0.095	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Beryllium	0.27		0.21	0.045	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Cadmium	0.27		0.10	0.030	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Calcium	70000		100	34	mg/Kg	☼	03/06/16 09:10	03/07/16 12:30	10
Chromium	12	B	0.52	0.090	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Cobalt	3.3		0.26	0.059	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Copper	13		0.52	0.11	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Iron	7900	B	10	4.0	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Lead	55		0.26	0.13	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Magnesium	32000		5.2	2.1	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Manganese	310		0.52	0.10	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Nickel	8.1	B	0.52	0.14	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Potassium	670		26	4.3	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Selenium	0.39	J	0.52	0.26	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Silver	<0.26		0.26	0.061	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Sodium	1100		52	6.9	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Thallium	<0.52		0.52	0.26	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Vanadium	11		0.26	0.076	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1
Zinc	59		1.0	0.33	mg/Kg	☼	03/06/16 09:10	03/07/16 10:22	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/09/16 13:12	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 13:51	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Client Sample ID: VL60-1(0-1)-030416D
Date Collected: 03/04/16 13:44
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-2
Matrix: Solid
Percent Solids: 86.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	37		17	8.9	ug/Kg	☼	03/07/16 19:00	03/11/16 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.85		0.200	0.200	SU			03/07/16 16:06	1

Client Sample ID: VL60-2(0-1)-030416
Date Collected: 03/04/16 14:05
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-3
Matrix: Solid
Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/05/16 17:47	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 17:47	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/05/16 17:47	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:47	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:47	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:47	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:47	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:47	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/05/16 17:47	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 17:47	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:47	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:47	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 17:47	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/05/16 17:47	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:47	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/05/16 17:47	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:47	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 17:47	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 17:47	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:47	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/05/16 17:47	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/05/16 17:47	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/05/16 17:47	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:47	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:47	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:47	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/05/16 17:47	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/05/16 17:47	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/05/16 17:47	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/05/16 17:47	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 17:47	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/05/16 17:47	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/05/16 17:47	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/05/16 17:47	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/05/16 17:47	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/05/16 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/05/16 17:47*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/05/16 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/05/16 17:47*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/05/16 17:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1

Client Sample ID: VL60-2(0-1)-030416
Date Collected: 03/04/16 14:05
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-3
Matrix: Solid
Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2-Methylnaphthalene	**12**	**J**	37	6.8	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Acenaphthene	**44**		37	6.6	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Acenaphthylene	**120**		37	4.9	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Anthracene	**150**		37	6.2	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Benzo[a]anthracene	**910**		37	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Bis(2-ethylhexyl) phthalate	<190		190	67	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Carbazole	<190		190	92	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Chrysene	**1000**		37	10	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Fluoranthene	**1600**		37	6.8	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Fluorene	**54**		37	5.2	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Isophorone	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Naphthalene	**9.5**	**J**	37	5.7	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1

Client Sample ID: VL60-2(0-1)-030416
Date Collected: 03/04/16 14:05
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-3
Matrix: Solid
Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Phenanthrene	**700**		37	5.1	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1
Phenol	<190		190	82	ug/Kg	☼	03/07/16 16:59	03/09/16 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*35 - 137*	*03/07/16 16:59*	*03/09/16 04:59*	*1*
2-Fluorobiphenyl	*72*		*25 - 119*	*03/07/16 16:59*	*03/09/16 04:59*	*1*
2-Fluorophenol	*64*		*25 - 110*	*03/07/16 16:59*	*03/09/16 04:59*	*1*
Nitrobenzene-d5	*67*		*25 - 115*	*03/07/16 16:59*	*03/09/16 04:59*	*1*
Phenol-d5	*57*		*31 - 110*	*03/07/16 16:59*	*03/09/16 04:59*	*1*
Terphenyl-d14	*166*	*X*	*36 - 134*	*03/07/16 16:59*	*03/09/16 04:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**1100**		180	36	ug/Kg	☼	03/07/16 16:59	03/10/16 14:04	5
Benzo[b]fluoranthene	**1900**		180	40	ug/Kg	☼	03/07/16 16:59	03/10/16 14:04	5
Benzo[g,h,i]perylene	**450**		180	59	ug/Kg	☼	03/07/16 16:59	03/10/16 14:04	5
Benzo[k]fluoranthene	**720**		180	54	ug/Kg	☼	03/07/16 16:59	03/10/16 14:04	5
Dibenz(a,h)anthracene	**82**	**J**	180	36	ug/Kg	☼	03/07/16 16:59	03/10/16 14:04	5
Indeno[1,2,3-cd]pyrene	**520**		180	48	ug/Kg	☼	03/07/16 16:59	03/10/16 14:04	5
Pyrene	**1700**		180	37	ug/Kg	☼	03/07/16 16:59	03/10/16 14:04	5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<18		18	6.4	ug/Kg	☼	03/07/16 15:14	03/08/16 19:01	1
PCB-1221	<18		18	8.0	ug/Kg	☼	03/07/16 15:14	03/08/16 19:01	1
PCB-1232	<18		18	7.9	ug/Kg	☼	03/07/16 15:14	03/08/16 19:01	1
PCB-1242	<18		18	6.0	ug/Kg	☼	03/07/16 15:14	03/08/16 19:01	1
PCB-1248	<18		18	7.2	ug/Kg	☼	03/07/16 15:14	03/08/16 19:01	1
PCB-1254	<18		18	3.9	ug/Kg	☼	03/07/16 15:14	03/08/16 19:01	1
PCB-1260	**17**	**J**	18	8.9	ug/Kg	☼	03/07/16 15:14	03/08/16 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*48 - 142*	*03/07/16 15:14*	*03/08/16 19:01*	*1*
Tetrachloro-m-xylene	*94*		*50 - 116*	*03/07/16 15:14*	*03/08/16 19:01*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:47	03/09/16 13:50	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 13:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 13:50	1
Cadmium	**0.0036**	**J**	0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 13:50	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:50	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:50	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:50	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 13:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 13:50	1
Manganese	**0.37**		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:50	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:50	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 13:50	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 13:50	1

Client Sample ID: VL60-2(0-1)-030416

Date Collected: 03/04/16 14:05
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-3

Matrix: Solid
Percent Solids: 86.1

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.13**	**J B**	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 13:50	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	**J**	0.050	0.010	mg/L		03/09/16 08:45	03/10/16 06:20	1
Barium	**0.20**	**J**	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 06:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 06:20	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 06:20	1
Chromium	**0.058**		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:20	1
Cobalt	**0.010**	**J**	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:20	1
Copper	**0.056**		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:20	1
Iron	**49**		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 06:20	1
Lead	**0.29**		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 06:20	1
Manganese	**0.52**		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:20	1
Nickel	**0.033**		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:20	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 06:20	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:20	1
Zinc	**0.34**	**J**	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 06:20	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Arsenic	**2.8**		0.55	0.26	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Barium	**40**		0.55	0.10	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Beryllium	**0.29**		0.22	0.048	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Cadmium	**0.30**		0.11	0.032	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Calcium	**71000**		110	36	mg/Kg	☼	03/06/16 09:10	03/07/16 12:34	10
Chromium	**24**	**B**	0.55	0.095	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Cobalt	**2.6**		0.28	0.063	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Copper	**13**		0.55	0.12	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Iron	**7100**	**B**	11	4.3	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Lead	**150**		0.28	0.14	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Magnesium	**39000**		5.5	2.2	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Manganese	**220**		0.55	0.11	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Nickel	**7.2**	**B**	0.55	0.15	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Potassium	**530**		28	4.5	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Selenium	**0.53**	**J**	0.55	0.27	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Sodium	**1100**		55	7.3	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Thallium	<0.55		0.55	0.27	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Vanadium	**10**		0.28	0.081	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1
Zinc	**63**		1.1	0.35	mg/Kg	☼	03/06/16 09:10	03/07/16 10:27	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/09/16 13:32	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 14:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Client Sample ID: VL60-2(0-1)-030416
Date Collected: 03/04/16 14:05
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-3
Matrix: Solid
Percent Solids: 86.1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	40		18	9.7	ug/Kg	☼	03/07/16 19:00	03/11/16 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.49		0.200	0.200	SU			03/07/16 16:13	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

GC 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108388

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 2.7

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		**Parameter**
IDOT 039		
Project Location/State	**Lab Project #**	
Wilmington, IL		
Sampler	**Lab PM**	
A. Tuckasz	Dick Wright	

Preservative Key
1. HCL, Cool to 4°
Cool to 4°
ol to 4°
ol to 4°
, Cool to 4°

500-108388 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH	PCB's				Comments
1		VLGO-1(0-1)-030416	3/4/16	1344	2	S	X	X	X	X	X	X				
2		VLGO-1(0-1)-030416D	3/4/16	1344	2	S	X	X	X	X	X	X				
3		VLGO-2(0-1)-030416	3/4/16	1405	2	S	X	X	X	X	X	X				
4		VLGO-3(0-1)-030416	3/4/16	1420	2	S	X	X	X	X	X	X				
5		APS-1(0-1)-030416	3/4/16	1435	2	S	X	X	X	X	X					
6		PP-1(0-1)-030416	3/4/16	1515	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI

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:

TAL-4124-500 (1209)

3/14/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

2000 block of S. Water Street (ISGS Site No. 2946-61)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.279059074 (Decimal Degrees) Longitude: -88.128086921 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.279059074 Longitude: -88.128086921

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 AL61-2 THROUGH AL61-5 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-61. SEE FIGURE 3-2 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108390-1.
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-61
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL61-2(0-1)-030416	AL61-3(0-1)-030416	AL61-4(0-1)-030416	AL61-5(0-1)-030416	Soil Reference Concentrations[A]
Sample Date	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	AL61-2	AL61-3	AL61-4	AL61-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-61	2946-61	2946-61	2946-61	
Parameter					
Laboratory pH (s.u.)	8.26	7.87	8.09	8.43	<6.25,>9.0
VOCs (ug/kg)	None Detected				
SVOCs (ug/kg)					
2-Methylnaphthalene	7.7 J	ND	8.4 J	ND	---
Acenaphthene	17 J	ND	71	52	570000
Acenaphthylene	30 J	ND	92	30 J	---
Anthracene	77	9.1 J	130	110	1.20E+07
Benzo(a)anthracene	330 J	58	590	380	900 / 1100 / 1800
Benzo(a)pyrene	380 J	74	670 J	360 J	90 / 1300 / 2100
Benzo(b)fluoranthene	550 J	130	1200 J	610 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	290 J	36 J	340 J	180 J	---
Benzo(k)fluoranthene	270 J	45	460 J	250 J	9000
bis(2-Ethylhexyl)phthalate	ND	ND	210	ND	46000
Chrysene	390 J	79	630	370	88000
Dibenzo(a,h)anthracene	63 J	ND	79 J	ND	90 / 200 / 420
Fluoranthene	530	140	1200	710	3100000
Fluorene	19 J	ND	41	40	560000
Indeno(1,2,3-cd)pyrene	280 J	30 J	280 J	160 J	900 / 900 / 1600
Naphthalene, SVOC	6 J	ND	6.9 J	ND	1800
Phenanthrene	390	45	680	470	---
Pyrene	1300 J	140	2100	1100	2300000
Total Metals (mg/kg)					
Antimony, Total	0.38 J	ND	0.2 J	ND	5
Arsenic, Total	4.9	5.5	3.2	5.5	11.3 / 13
Barium, Total	63 J-	58 J-	41 J-	48 J-	1500
Beryllium, Total	0.36	0.38	0.27	0.34	22
Cadmium, Total	0.38	0.23	0.24	0.24	5.2
Calcium, Total	69000 J	26000 J	48000 J	47000 J	---
Chromium, Total	10 J-	13 J-	9.4 J-	9.2 J-	21
Cobalt, Total	5.7	5.1	4.2	4.9	20
Copper, Total	13	16	11	14	2900
Iron, Total	8900 J	10000 J	8500 J	12000 J	15000 / 15900
Lead, Total	63 J	42 J	37 J	56 J	107
Magnesium, Total	30000 J	16000 J	22000 J	21000 J	325000
Manganese, Total	490 J	390 J	330 J	340 J	630 / 636
Mercury, Total	0.016 J	ND	0.0092 J	0.034 J	0.89
Nickel, Total	10	9.4	8.7	11	100
Potassium, Total	690 J+	730 J+	710 J+	660 J+	---
Selenium, Total	0.28 J	0.39 J	0.32 J	0.32 J	1.3
Sodium, Total	1500 J-	1200 J-	460 J-	780 J-	---
Vanadium, Total	14	15	11	14	550
Zinc, Total	100	59	63	66	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.4 J	0.39 J	0.28 J	0.36 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.85	0.61	0.4	0.55	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
Zinc, TCLP	ND	ND	ND	ND	5

Summary Table of ISGS Site No. 2946-61
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL61-2(0-1)-030416	AL61-3(0-1)-030416	AL61-4(0-1)-030416	AL61-5(0-1)-030416	Soil Reference Concentrations[A]
Sample Date	3/4/2016	3/4/2016	3/4/2016	3/4/2016	
Location ID	AL61-2	AL61-3	AL61-4	AL61-5	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-61	2946-61	2946-61	2946-61	
Parameter					
SPLP Metals (mg/l)					
Arsenic, SPLP	0.075	0.067	0.025 J	0.034 J	0.05
Barium, SPLP	0.85	0.74	0.32 J	0.55	2
Beryllium, SPLP	0.0066	0.0068	ND	0.0046	0.004
Cadmium, SPLP	0.0037 J	0.0024 J	ND	ND	0.005
Chromium, SPLP	0.15 J	0.17 J	0.066 J	0.12 J	0.1
Cobalt, SPLP	0.033	0.032	0.015 J	0.02 J	1
Copper, SPLP	0.12	0.13	0.05	0.073	0.65
Iron, SPLP	160 J	170 J	61 J	110 J	5
Lead, SPLP	0.36 J-	0.18 J-	0.13 J-	0.17 J-	0.0075
Manganese, SPLP	1.7	1.8	0.98	0.83	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	0.11 J	0.11 J	0.048 J	0.076 J	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	1.3	0.6	0.37 J	0.44 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: AL61-2(0-1)-030416
Date Collected: 03/04/16 11:42
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-15
Matrix: Solid
Percent Solids: 85.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/06/16 17:26	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 17:26	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/06/16 17:26	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:26	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:26	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:26	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:26	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:26	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/06/16 17:26	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 17:26	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:26	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:26	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 17:26	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/06/16 17:26	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:26	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/06/16 17:26	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:26	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 17:26	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 17:26	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:26	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/06/16 17:26	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/06/16 17:26	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:26	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:26	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:26	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:26	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/06/16 17:26	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:26	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/06/16 17:26	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 17:26	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 17:26	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:26	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 17:26	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 17:26	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:26	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/06/16 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/06/16 17:26*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/06/16 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/06/16 17:26*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/06/16 17:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1

Client Sample ID: AL61-2(0-1)-030416
Date Collected: 03/04/16 11:42
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-15
Matrix: Solid
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	☼	03/07/16 16:21	03/11/16 04:46	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2-Methylnaphthalene	**7.7**	**J**	38	7.0	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Acenaphthene	**17**	**J**	38	6.9	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Acenaphthylene	**30**	**J**	38	5.0	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Anthracene	**77**		38	6.4	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Benzo[a]anthracene	**330**	*****	38	5.1	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Benzo[a]pyrene	**380**	*****	38	7.4	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Benzo[b]fluoranthene	**550**	*****	38	8.2	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Benzo[g,h,i]perylene	**290**	*****	38	12	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Benzo[k]fluoranthene	**270**	*****	38	11	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Bis(2-ethylhexyl) phthalate	<190	*	190	70	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Butyl benzyl phthalate	<190	*	190	73	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Chrysene	**390**	*****	38	10	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Dibenz(a,h)anthracene	**63**	*****	38	7.4	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Fluoranthene	**530**		38	7.1	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Fluorene	**19**	**J**	38	5.4	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1

Client Sample ID: AL61-2(0-1)-030416
Date Collected: 03/04/16 11:42
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-15
Matrix: Solid
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	**280**	*	38	9.9	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Naphthalene	**6.0**	J	38	5.9	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Phenanthrene	**390**		38	5.3	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1
Pyrene	**1300**	*	38	7.6	ug/Kg	☼	03/07/16 16:21	03/11/16 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*35 - 137*	*03/07/16 16:21*	*03/11/16 04:46*	*1*
2-Fluorobiphenyl	*82*		*25 - 119*	*03/07/16 16:21*	*03/11/16 04:46*	*1*
2-Fluorophenol	*86*		*25 - 110*	*03/07/16 16:21*	*03/11/16 04:46*	*1*
Nitrobenzene-d5	*78*		*25 - 115*	*03/07/16 16:21*	*03/11/16 04:46*	*1*
Phenol-d5	*81*		*31 - 110*	*03/07/16 16:21*	*03/11/16 04:46*	*1*
Terphenyl-d14	*179*	*X *	*36 - 134*	*03/07/16 16:21*	*03/11/16 04:46*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 19:05	1
Barium	**0.40**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 19:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 19:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 19:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:05	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:05	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 19:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 19:05	1
Manganese	**0.85**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:05	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 19:05	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:05	1
Zinc	**0.66**	B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 19:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.075**		0.050	0.010	mg/L		03/09/16 08:43	03/10/16 04:18	1
Barium	**0.85**		0.50	0.050	mg/L		03/09/16 08:43	03/10/16 04:18	1
Beryllium	**0.0066**		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 04:18	1
Cadmium	**0.0037**	J ^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 04:18	1
Chromium	**0.15**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:18	1
Cobalt	**0.033**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:18	1
Copper	**0.12**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:18	1
Iron	**160**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 04:18	1
Lead	**0.36**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 04:18	1
Manganese	**1.7**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:18	1
Nickel	**0.11**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:18	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 04:18	1

Client Sample ID: AL61-2(0-1)-030416
Date Collected: 03/04/16 11:42
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-15
Matrix: Solid
Percent Solids: 85.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:18	1
Zinc	**1.3**		0.50	0.020	mg/L		03/09/16 08:43	03/10/16 04:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.38**	**J**	1.0	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Arsenic	**4.9**		0.51	0.24	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Barium	**63**		0.51	0.094	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Beryllium	**0.36**		0.21	0.045	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Cadmium	**0.38**		0.10	0.030	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Calcium	**69000**	**B**	100	33	mg/Kg	☼	03/06/16 09:35	03/08/16 15:40	10
Chromium	**10**	**B**	0.51	0.088	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Cobalt	**5.7**		0.26	0.058	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Copper	**13**		0.51	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Iron	**8900**	**B**	10	4.0	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Lead	**63**		0.26	0.13	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Magnesium	**30000**	**B**	5.1	2.1	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Manganese	**490**		0.51	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Nickel	**10**		0.51	0.14	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Potassium	**690**		26	4.2	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Selenium	**0.28**	**J**	0.51	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Sodium	**1500**		51	6.8	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Vanadium	**14**		0.26	0.075	mg/Kg	☼	03/06/16 09:35	03/07/16 22:05	1
Zinc	**100**		10	3.3	mg/Kg	☼	03/06/16 09:35	03/08/16 15:40	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/11/16 12:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**16**	**J**	19	10	ug/Kg	☼	03/07/16 19:00	03/11/16 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.26**		0.200	0.200	SU			03/07/16 15:30	1

Client Sample ID: AL61-3(0-1)-030416
Date Collected: 03/04/16 12:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-16
Matrix: Solid
Percent Solids: 85.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/06/16 17:52	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 17:52	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		03/06/16 17:52	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:52	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:52	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:52	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:52	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:52	1
Chloroethane	<5.8		5.8	2.5	ug/Kg	☼		03/06/16 17:52	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 17:52	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:52	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:52	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 17:52	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/06/16 17:52	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:52	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		03/06/16 17:52	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:52	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 17:52	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 17:52	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:52	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/06/16 17:52	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/06/16 17:52	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 17:52	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:52	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:52	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:52	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.93	ug/Kg	☼		03/06/16 17:52	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 17:52	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/06/16 17:52	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 17:52	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 17:52	1
1,1,1-Trichloroethane	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:52	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 17:52	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 17:52	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 17:52	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/06/16 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/06/16 17:52*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/06/16 17:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/06/16 17:52*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/06/16 17:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1

Client Sample ID: AL61-3(0-1)-030416
Date Collected: 03/04/16 12:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-16
Matrix: Solid
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	88	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Anthracene	**9.1**	**J**	38	6.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Benzo[a]anthracene	**58**		38	5.2	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Benzo[a]pyrene	**74**		38	7.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Benzo[b]fluoranthene	**130**		38	8.3	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Benzo[g,h,i]perylene	**36**	**J**	38	12	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Benzo[k]fluoranthene	**45**		38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Carbazole	<190		190	97	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Chrysene	**79**		38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Fluoranthene	**140**		38	7.2	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1

Client Sample ID: AL61-3(0-1)-030416
Date Collected: 03/04/16 12:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-16
Matrix: Solid
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	**30**	**J**	38	10	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Phenanthrene	**45**		38	5.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Phenol	<190		190	86	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1
Pyrene	**140**		38	7.7	ug/Kg	☼	03/07/16 16:21	03/09/16 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*35 - 137*	*03/07/16 16:21*	*03/09/16 18:01*	*1*
2-Fluorobiphenyl	*80*		*25 - 119*	*03/07/16 16:21*	*03/09/16 18:01*	*1*
2-Fluorophenol	*85*		*25 - 110*	*03/07/16 16:21*	*03/09/16 18:01*	*1*
Nitrobenzene-d5	*83*		*25 - 115*	*03/07/16 16:21*	*03/09/16 18:01*	*1*
Phenol-d5	*58*		*31 - 110*	*03/07/16 16:21*	*03/09/16 18:01*	*1*
Terphenyl-d14	*121*		*36 - 134*	*03/07/16 16:21*	*03/09/16 18:01*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 19:12	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 19:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 19:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 19:12	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:12	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:12	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:12	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 19:12	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 19:12	1
Manganese	**0.61**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:12	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:12	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 19:12	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:12	1
Zinc	**0.95**	**B**	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 19:12	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		03/09/16 08:43	03/10/16 04:41	1
Barium	**0.74**		0.50	0.050	mg/L		03/09/16 08:43	03/10/16 04:41	1
Beryllium	**0.0068**		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 04:41	1
Cadmium	**0.0024**	**J ^**	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 04:41	1
Chromium	**0.17**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:41	1
Cobalt	**0.032**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:41	1
Copper	**0.13**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:41	1
Iron	**170**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 04:41	1
Lead	**0.18**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 04:41	1
Manganese	**1.8**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:41	1
Nickel	**0.11**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 04:41	1

Client Sample ID: AL61-3(0-1)-030416
Date Collected: 03/04/16 12:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-16
Matrix: Solid
Percent Solids: 85.6

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:41	1
Zinc	**0.60**		0.50	0.020	mg/L		03/09/16 08:43	03/10/16 04:41	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Arsenic	**5.5**		0.56	0.26	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Barium	**58**		0.56	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Beryllium	**0.38**		0.22	0.048	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Cadmium	**0.23**		0.11	0.032	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Calcium	**26000**	**B**	11	3.6	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Chromium	**13**	**B**	0.56	0.096	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Cobalt	**5.1**		0.28	0.063	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Copper	**16**		0.56	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Iron	**10000**	**B**	11	4.3	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Lead	**42**		0.28	0.14	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Magnesium	**16000**	**B**	5.6	2.3	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Manganese	**390**		0.56	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Nickel	**9.4**		0.56	0.15	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Potassium	**730**		28	4.6	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Selenium	**0.39**	**J**	0.56	0.28	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Sodium	**1200**		56	7.4	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Vanadium	**15**		0.28	0.081	mg/Kg	☼	03/06/16 09:35	03/07/16 22:10	1
Zinc	**59**		11	3.5	mg/Kg	☼	03/06/16 09:35	03/08/16 15:44	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.7	ug/Kg	☼	03/07/16 19:00	03/11/16 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.87**		0.200	0.200	SU			03/07/16 15:34	1

Client Sample ID: AL61-4(0-1)-030416
Date Collected: 03/04/16 13:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-18
Matrix: Solid
Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/06/16 18:44	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 18:44	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/06/16 18:44	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 18:44	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 18:44	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 18:44	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 18:44	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 18:44	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/06/16 18:44	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 18:44	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 18:44	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 18:44	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 18:44	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/06/16 18:44	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 18:44	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/06/16 18:44	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 18:44	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 18:44	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 18:44	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 18:44	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/06/16 18:44	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/06/16 18:44	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 18:44	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 18:44	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 18:44	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 18:44	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/06/16 18:44	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 18:44	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/06/16 18:44	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 18:44	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 18:44	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 18:44	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 18:44	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 18:44	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 18:44	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/06/16 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/06/16 18:44*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/06/16 18:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/06/16 18:44*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/06/16 18:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1

Client Sample ID: AL61-4(0-1)-030416
Date Collected: 03/04/16 13:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-18
Matrix: Solid
Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2-Methylnaphthalene	**8.4**	**J**	38	7.0	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Acenaphthene	**71**		38	6.8	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Acenaphthylene	**92**		38	5.0	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Anthracene	**130**		38	6.3	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Benzo[a]anthracene	**590**		38	5.1	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Benzo[a]pyrene	**670**	*	38	7.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Benzo[b]fluoranthene	**1200**	*	38	8.2	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Benzo[g,h,i]perylene	**340**	*	38	12	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Benzo[k]fluoranthene	**460**	*	38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Bis(2-ethylhexyl) phthalate	**210**		190	69	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Chrysene	**630**		38	10	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Dibenz(a,h)anthracene	**79**	*	38	7.3	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Fluoranthene	**1200**		38	7.0	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Fluorene	**41**		38	5.3	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1

Client Sample ID: AL61-4(0-1)-030416
Date Collected: 03/04/16 13:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-18
Matrix: Solid
Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**280**	*	38	9.8	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Naphthalene	**6.9**	J	38	5.8	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
N-Nitrosodi-n-propylamine	<77		77	46	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Phenanthrene	**680**		38	5.3	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Phenol	<190		190	84	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1
Pyrene	**2100**		38	7.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*35 - 137*	*03/07/16 16:21*	*03/09/16 18:49*	*1*
2-Fluorobiphenyl	*93*		*25 - 119*	*03/07/16 16:21*	*03/09/16 18:49*	*1*
2-Fluorophenol	*93*		*25 - 110*	*03/07/16 16:21*	*03/09/16 18:49*	*1*
Nitrobenzene-d5	*90*		*25 - 115*	*03/07/16 16:21*	*03/09/16 18:49*	*1*
Phenol-d5	*96*		*31 - 110*	*03/07/16 16:21*	*03/09/16 18:49*	*1*
Terphenyl-d14	*161*	*X*	*36 - 134*	*03/07/16 16:21*	*03/09/16 18:49*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 19:26	1
Barium	**0.28**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 19:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 19:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 19:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:26	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:26	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:26	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 19:26	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 19:26	1
Manganese	**0.40**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:26	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 19:26	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:26	1
Zinc	**0.44**	J B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 19:26	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.025**	J	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 04:54	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 04:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 04:54	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 04:54	1
Chromium	**0.066**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:54	1
Cobalt	**0.015**	J	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:54	1
Copper	**0.050**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:54	1
Iron	**61**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 04:54	1
Lead	**0.13**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 04:54	1
Manganese	**0.98**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:54	1
Nickel	**0.048**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 04:54	1

Client Sample ID: AL61-4(0-1)-030416
Date Collected: 03/04/16 13:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-18
Matrix: Solid
Percent Solids: 86.1

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:54	1
Zinc	**0.37**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 04:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.20**	**J**	0.93	0.19	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Arsenic	**3.2**		0.47	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Barium	**41**		0.47	0.085	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Beryllium	**0.27**		0.19	0.040	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Cadmium	**0.24**		0.093	0.027	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Calcium	**48000**	**B**	93	30	mg/Kg	☼	03/06/16 09:35	03/08/16 15:53	10
Chromium	**9.4**	**B**	0.47	0.080	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Cobalt	**4.2**		0.23	0.053	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Copper	**11**		0.47	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Iron	**8500**	**B**	9.3	3.6	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Lead	**37**		0.23	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Magnesium	**22000**	**B**	4.7	1.9	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Manganese	**330**		0.47	0.092	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Nickel	**8.7**		0.47	0.13	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Potassium	**710**		23	3.8	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Selenium	**0.32**	**J**	0.47	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Sodium	**460**		47	6.1	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Thallium	<0.47		0.47	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Vanadium	**11**		0.23	0.068	mg/Kg	☼	03/06/16 09:35	03/07/16 22:20	1
Zinc	**63**		9.3	2.9	mg/Kg	☼	03/06/16 09:35	03/08/16 15:53	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:39	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**9.2**	**J**	17	8.8	ug/Kg	☼	03/07/16 19:00	03/11/16 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.09**		0.200	0.200	SU			03/07/16 15:41	1

Client Sample ID: AL61-5(0-1)-030416
Date Collected: 03/04/16 13:13
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-19
Matrix: Solid
Percent Solids: 86.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/06/16 19:10	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 19:10	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/06/16 19:10	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 19:10	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 19:10	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 19:10	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 19:10	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 19:10	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/06/16 19:10	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 19:10	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 19:10	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 19:10	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 19:10	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/06/16 19:10	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 19:10	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/06/16 19:10	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 19:10	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 19:10	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 19:10	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 19:10	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/06/16 19:10	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/06/16 19:10	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 19:10	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 19:10	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 19:10	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 19:10	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/06/16 19:10	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 19:10	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/06/16 19:10	1
trans-1,2-Dichloroethene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 19:10	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 19:10	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 19:10	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 19:10	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 19:10	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 19:10	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/06/16 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/06/16 19:10*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/06/16 19:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/06/16 19:10*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*03/06/16 19:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1

Client Sample ID: AL61-5(0-1)-030416
Date Collected: 03/04/16 13:13
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-19
Matrix: Solid
Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	87	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
4,6-Dinitro-2-methylphenol	<770		770	310	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Acenaphthene	**52**		38	6.9	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Acenaphthylene	**30**	**J**	38	5.0	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Anthracene	**110**		38	6.4	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Benzo[a]anthracene	**380**		38	5.1	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Benzo[a]pyrene	**360**	*	38	7.4	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Benzo[b]fluoranthene	**610**	*	38	8.2	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Benzo[g,h,i]perylene	**180**	*	38	12	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Benzo[k]fluoranthene	**250**	*	38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Chrysene	**370**		38	10	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Dibenz(a,h)anthracene	<38	*	38	7.4	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Fluoranthene	**710**		38	7.1	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Fluorene	**40**		38	5.4	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Hexachloroethane	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1

Client Sample ID: AL61-5(0-1)-030416
Date Collected: 03/04/16 13:13
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-19
Matrix: Solid
Percent Solids: 86.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**160**	*	38	9.9	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
N-Nitrosodi-n-propylamine	<77		77	47	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Phenanthrene	**470**		38	5.3	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Phenol	<190		190	85	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1
Pyrene	**1100**		38	7.6	ug/Kg	☼	03/07/16 16:21	03/09/16 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*35 - 137*	*03/07/16 16:21*	*03/09/16 19:13*	*1*
2-Fluorobiphenyl	*102*		*25 - 119*	*03/07/16 16:21*	*03/09/16 19:13*	*1*
2-Fluorophenol	*80*		*25 - 110*	*03/07/16 16:21*	*03/09/16 19:13*	*1*
Nitrobenzene-d5	*96*		*25 - 115*	*03/07/16 16:21*	*03/09/16 19:13*	*1*
Phenol-d5	*74*		*31 - 110*	*03/07/16 16:21*	*03/09/16 19:13*	*1*
Terphenyl-d14	*193*	*X*	*36 - 134*	*03/07/16 16:21*	*03/09/16 19:13*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 19:33	1
Barium	**0.36**	**J**	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 19:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 19:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 19:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:33	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:33	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 19:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 19:33	1
Manganese	**0.55**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 19:33	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:33	1
Zinc	**0.19**	**J B**	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 19:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.034**	**J**	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 05:01	1
Barium	**0.55**		0.50	0.050	mg/L		03/09/16 08:43	03/10/16 05:01	1
Beryllium	**0.0046**		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 05:01	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 05:01	1
Chromium	**0.12**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 05:01	1
Cobalt	**0.020**	**J**	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 05:01	1
Copper	**0.073**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 05:01	1
Iron	**110**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 05:01	1
Lead	**0.17**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 05:01	1
Manganese	**0.83**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 05:01	1
Nickel	**0.076**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 05:01	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 05:01	1

Client Sample ID: AL61-5(0-1)-030416
Date Collected: 03/04/16 13:13
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-19
Matrix: Solid
Percent Solids: 86.3

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 05:01	1
Zinc	**0.44**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 05:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.91		0.91	0.19	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Arsenic	**5.5**		0.46	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Barium	**48**		0.46	0.084	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Beryllium	**0.34**		0.18	0.040	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Cadmium	**0.24**		0.091	0.026	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Calcium	**47000**	**B**	91	29	mg/Kg	☼	03/06/16 09:35	03/08/16 15:57	10
Chromium	**9.2**	**B**	0.46	0.079	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Cobalt	**4.9**		0.23	0.052	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Copper	**14**		0.46	0.099	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Iron	**12000**	**B**	9.1	3.5	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Lead	**56**		0.23	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Magnesium	**21000**	**B**	4.6	1.9	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Manganese	**340**		0.46	0.091	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Nickel	**11**		0.46	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Potassium	**660**		23	3.7	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Selenium	**0.32**	**J**	0.46	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Sodium	**780**		46	6.0	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Thallium	<0.46		0.46	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Vanadium	**14**		0.23	0.067	mg/Kg	☼	03/06/16 09:35	03/07/16 22:25	1
Zinc	**66**		9.1	2.9	mg/Kg	☼	03/06/16 09:35	03/08/16 15:57	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:41	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/11/16 12:12	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**34**		18	9.3	ug/Kg	☼	03/07/16 19:00	03/11/16 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.43**		0.200	0.200	SU			03/07/16 15:45	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):

2000 block of S. Water Street (ISGS Site No. 2946-62)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.278875079 (Decimal Degrees) Longitude: -88.127917340 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.278875079 Longitude: -88.127917340

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 FPD-1, FPD-2, FPD-5, FPD-6, AND FPD-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-62. SEE FIGURE 3-2 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108662-1 AND 500-108663-1.
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional ~~Geologist~~ Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-62
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	FPD-1(0-1)-031016	FPD-2(0-1)-031016	FPD-5(0-1)-031016	FPD-6(0-1)-031016	FPD-7(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	
Location ID	FPD-1	FPD-2	FPD-5	FPD-6	FPD-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-62	2946-62	2946-62	2946-62	2946-62	
Parameter						
Laboratory pH (s.u.)	8.29	8.15	8.99	8.99	8.88	<6.25,>9.0
VOCs (ug/kg)	None Detected					
SVOCs (ug/kg)						
2-Methylnaphthalene	6.7 J	ND	ND	28 J	11 J	---
Acenaphthene	14 J	ND	ND	120	78	570000
Acenaphthylene	220	21 J	35	170	ND	---
Anthracene	100	19 J	21 J	320 J	200	1.20E+07
Benzo(a)anthracene	600 J	120 J	170	970 J	1200 J	900 / 1100 / 1800
Benzo(a)pyrene	930 J	180 J	240 J	1000 J	1400 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1400 J	300 J	390 J	1500 J	2100 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	690 J	150 J	110 J	510 J	650 J	---
Benzo(k)fluoranthene	540 J	110 J	160 J	590 J	880 J	9000
bis(2-Ethylhexyl)phthalate	170 J	120 J	ND	ND	ND	46000
Butyl benzyl phthalate	87 J	ND	ND	ND	ND	930000
Chrysene	660 J	160 J	190	1000 J	1200 J	88000
Dibenzo(a,h)anthracene	140 J	33 J	ND	ND	170 J	90 / 200 / 420
Dibenzofuran	ND	ND	ND	49 J	ND	---
Fluoranthene	730	230	270 B	1200 J	950 B	3100000
Fluorene	22 J	6.1 J	ND	200	49	560000
Indeno(1,2,3-cd)pyrene	650 J	120 J	98 J	550 J	790 J	900 / 900 / 1600
Naphthalene, SVOC	11 J	ND	ND	22 J	ND	1800
Phenanthrene	200	110	65 B	1900 J	730 B	---
Pyrene	1500 J	410 J	360	5400 J	2400	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	0.33 J	0.22 J	0.31 J	0.32 J	5
Arsenic, Total	2.2 J	3.6 J	3.1 J-	2.3 J-	3.3 J-	11.3 / 13
Barium, Total	35 J	38 J	28 J	28 J	22 J	1500
Beryllium, Total	0.27	0.25	0.46 J	0.21 J	0.29 J	22
Cadmium, Total	0.24 J-	0.21 J-	0.26 J	0.25 J	0.21 J	5.2
Calcium, Total	120000 J	100000 J	120000 J	140000 J	110000 J	---
Chromium, Total	13	10	7.7 J-	5.7 J-	4.3 J-	21
Cobalt, Total	2.6 J	2.6 J	3.6	2.5	2.4	20
Copper, Total	12	9.7	9.4 J	7.5 J	11 J	2900
Iron, Total	6100 J	6700 J	7600 J	5900 J	6600 J	15000 / 15900
Lead, Total	66 J	49 J	63 J-	35 J-	42 J-	107
Magnesium, Total	72000 J	44000 J	69000 J	86000 J	65000 J	325000
Manganese, Total	220 J	200 J	290 J+	270 J+	230 J+	630 / 636
Mercury, Total	ND	0.021	0.022	0.016	0.013 J	0.89
Nickel, Total	6.9	7.2	7.9 J	7 J	6.2 J	100
Potassium, Total	580 J+	570 J+	590 J+	520 J+	500 J+	---
Selenium, Total	0.41 J	ND	0.23 J	0.29 J	ND	1.3
Sodium, Total	970 J-	840 J-	1800	1200	1100	---
Vanadium, Total	8 J	9.7 J	7.7	7.8	7.1	550
Zinc, Total	58 J-	63 J-	52 J	46 J	37 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.3 J	0.28 J	0.16 J	0.29 J	0.15 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	0.2 J	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.2 J+	1.1 J+	1.1	1.2	0.84	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.16 J	0.075 J	ND	0.3 J	ND	5

Summary Table of ISGS Site No. 2946-62
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	FPD-1(0-1)-031016	FPD-2(0-1)-031016	FPD-5(0-1)-031016	FPD-6(0-1)-031016	FPD-7(0-1)-031016	Soil Reference Concentrations[A]
Sample Date	3/10/2016	3/10/2016	3/10/2016	3/10/2016	3/10/2016	
Location ID	FPD-1	FPD-2	FPD-5	FPD-6	FPD-7	
Depth	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	
ISGS Site No.	2946-62	2946-62	2946-62	2946-62	2946-62	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	0.017 J	ND	ND	ND	0.05
Barium, SPLP	0.21 J	0.25 J	0.16 J	0.28 J	0.073 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.0024 J	ND	0.005
Chromium, SPLP	0.049	0.056	0.044	0.069	0.017 J	0.1
Cobalt, SPLP	ND	ND	0.012 J	0.017 J	ND	1
Copper, SPLP	0.04	0.028	0.052	0.055	0.042	0.65
Iron, SPLP	36 J+	50 J+	45 J+	56 J+	16 J+	5
Lead, SPLP	0.13	0.045	0.21	0.22	0.099	0.0075
Manganese, SPLP	0.38	0.33	0.72	0.72	0.29	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.028	0.032	0.034	0.049	0.011 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.36 J	0.22 J	0.35 J	0.41 J	0.17 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108662-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 3:07:44 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: FPD-7(0-1)-031016
Date Collected: 03/10/16 11:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-17
Matrix: Solid
Percent Solids: 94.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.1	ug/Kg	☼		03/14/16 17:34	1
Benzene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 17:34	1
Bromodichloromethane	<5.3		5.3	0.90	ug/Kg	☼		03/14/16 17:34	1
Bromoform	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 17:34	1
Bromomethane	<5.3		5.3	2.0	ug/Kg	☼		03/14/16 17:34	1
Carbon disulfide	<5.3		5.3	2.0	ug/Kg	☼		03/14/16 17:34	1
Carbon tetrachloride	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 17:34	1
Chlorobenzene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 17:34	1
Chloroethane	<5.3		5.3	2.2	ug/Kg	☼		03/14/16 17:34	1
Chloroform	<5.3		5.3	1.0	ug/Kg	☼		03/14/16 17:34	1
Chloromethane	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 17:34	1
cis-1,2-Dichloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 17:34	1
cis-1,3-Dichloropropene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 17:34	1
Dibromochloromethane	<5.3		5.3	0.61	ug/Kg	☼		03/14/16 17:34	1
1,1-Dichloroethane	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 17:34	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		03/14/16 17:34	1
1,1-Dichloroethene	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 17:34	1
1,2-Dichloropropane	<5.3		5.3	1.4	ug/Kg	☼		03/14/16 17:34	1
1,3-Dichloropropene, Total	<5.3		5.3	1.5	ug/Kg	☼		03/14/16 17:34	1
Ethylbenzene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 17:34	1
2-Hexanone	<5.3		5.3	1.6	ug/Kg	☼		03/14/16 17:34	1
Methylene Chloride	<5.3		5.3	4.0	ug/Kg	☼		03/14/16 17:34	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		03/14/16 17:34	1
methyl isobutyl ketone	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 17:34	1
Methyl tert-butyl ether	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 17:34	1
Styrene	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 17:34	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	0.84	ug/Kg	☼		03/14/16 17:34	1
Tetrachloroethene	<5.3		5.3	1.1	ug/Kg	☼		03/14/16 17:34	1
Toluene	<5.3		5.3	1.8	ug/Kg	☼		03/14/16 17:34	1
trans-1,2-Dichloroethene	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 17:34	1
trans-1,3-Dichloropropene	<5.3		5.3	1.5	ug/Kg	☼		03/14/16 17:34	1
1,1,1-Trichloroethane	<5.3		5.3	1.2	ug/Kg	☼		03/14/16 17:34	1
1,1,2-Trichloroethane	<5.3		5.3	1.0	ug/Kg	☼		03/14/16 17:34	1
Trichloroethene	<5.3		5.3	1.4	ug/Kg	☼		03/14/16 17:34	1
Vinyl chloride	<5.3		5.3	1.3	ug/Kg	☼		03/14/16 17:34	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*03/14/16 17:34*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/14/16 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/14/16 17:34*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*03/14/16 17:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1

Client Sample ID: FPD-7(0-1)-031016
Date Collected: 03/10/16 11:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-17
Matrix: Solid
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2-Methylnaphthalene	**11**	**J**	35	6.4	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
2-Nitrophenol	<350		350	82	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
4,6-Dinitro-2-methylphenol	<700		700	280	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Acenaphthene	**78**		35	6.3	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Acenaphthylene	<35		35	4.6	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Anthracene	**200**		35	5.8	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Benzo[a]anthracene	**1200**	*	35	4.7	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Benzo[a]pyrene	**1400**	*	35	6.8	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Benzo[b]fluoranthene	**2100**	*	35	7.5	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Benzo[g,h,i]perylene	**650**	*	35	11	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Benzo[k]fluoranthene	**880**	*	35	10	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Bis(2-ethylhexyl) phthalate	<180	*	180	64	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Butyl benzyl phthalate	<180	*	180	66	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Carbazole	<180		180	87	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Chrysene	**1200**	*	35	9.5	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Dibenz(a,h)anthracene	**170**	*	35	6.7	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Fluoranthene	**950**	**B**	35	6.5	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Fluorene	**49**		35	4.9	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Hexachlorobenzene	<70		70	8.1	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1

Client Sample ID: FPD-7(0-1)-031016
Date Collected: 03/10/16 11:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-17
Matrix: Solid
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**790**	*	35	9.0	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Isophorone	<180		180	39	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
N-Nitrosodi-n-propylamine	<70		70	43	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Pentachlorophenol	<700		700	560	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Phenanthrene	**730**	B	35	4.9	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1
Phenol	<180		180	78	ug/Kg	☼	03/14/16 07:02	03/21/16 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*35 - 137*	*03/14/16 07:02*	*03/21/16 18:43*	*1*
2-Fluorobiphenyl	*88*		*25 - 119*	*03/14/16 07:02*	*03/21/16 18:43*	*1*
2-Fluorophenol	*99*		*25 - 110*	*03/14/16 07:02*	*03/21/16 18:43*	*1*
Nitrobenzene-d5	*75*		*25 - 115*	*03/14/16 07:02*	*03/21/16 18:43*	*1*
Phenol-d5	*95*		*31 - 110*	*03/14/16 07:02*	*03/21/16 18:43*	*1*
Terphenyl-d14	*211*	*X	*36 - 134*	*03/14/16 07:02*	*03/21/16 18:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**2400**		170	35	ug/Kg	☼	03/14/16 07:02	03/23/16 16:21	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 03:15	1
Barium	**0.15**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 03:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 03:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 03:15	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:15	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:15	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:15	1
Iron	**0.20**	J	0.40	0.20	mg/L		03/20/16 14:00	03/22/16 03:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 03:15	1
Manganese	**0.84**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:15	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:15	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 03:15	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:15	1
Zinc	**0.058**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 03:15	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 13:19	1
Barium	**0.073**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 13:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 13:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 13:19	1
Chromium	**0.017**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:19	1
Copper	**0.042**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:19	1
Iron	**16**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 13:19	1
Lead	**0.099**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 13:19	1

Client Sample ID: FPD-7(0-1)-031016
Date Collected: 03/10/16 11:16
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-17
Matrix: Solid
Percent Solids: 94.1

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.29		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:19	1
Nickel	0.011	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 13:19	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:19	1
Zinc	0.17	J	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 13:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.32	J	0.90	0.19	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Arsenic	3.3		0.45	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Barium	22		0.45	0.082	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Beryllium	0.29		0.18	0.039	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Cadmium	0.21		0.090	0.026	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Calcium	110000	B	90	29	mg/Kg	☼	03/16/16 11:30	03/20/16 03:12	10
Chromium	4.3		0.45	0.077	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Cobalt	2.4		0.22	0.051	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Copper	11		0.45	0.097	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Iron	6600	B	9.0	3.5	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Lead	42		0.22	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Magnesium	65000	B	45	18	mg/Kg	☼	03/16/16 11:30	03/20/16 03:12	10
Manganese	230	B	0.45	0.089	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Nickel	6.2		0.45	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Potassium	500		22	3.7	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Selenium	<0.45		0.45	0.22	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Silver	<0.22		0.22	0.053	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Sodium	1100		45	5.9	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Vanadium	7.1		0.22	0.066	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1
Zinc	37		0.90	0.28	mg/Kg	☼	03/16/16 11:30	03/19/16 07:54	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:29	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 19:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13	J	17	8.9	ug/Kg	☼	03/18/16 15:00	03/19/16 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.88		0.200	0.200	SU			03/12/16 16:10	1

Client Sample ID: FPD-6(0-1)-031016
Date Collected: 03/10/16 11:22
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-18
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/14/16 18:00	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 18:00	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/14/16 18:00	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:00	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 18:00	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 18:00	1
Carbon tetrachloride	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 18:00	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/14/16 18:00	1
Chloroform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:00	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:00	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 18:00	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/14/16 18:00	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:00	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/14/16 18:00	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 18:00	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 18:00	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 18:00	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/14/16 18:00	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/14/16 18:00	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 18:00	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:00	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.86	ug/Kg	☼		03/14/16 18:00	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:00	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 18:00	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 18:00	1
1,1,1-Trichloroethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 18:00	1
Trichloroethene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 18:00	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:00	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/14/16 18:00*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*03/14/16 18:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/14/16 18:00*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*03/14/16 18:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1

Client Sample ID: FPD-6(0-1)-031016
Date Collected: 03/10/16 11:22
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-18
Matrix: Solid
Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	79	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2,4-Dichlorophenol	<340		340	82	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2,4-Dinitrophenol	<700		700	610	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2,4-Dinitrotoluene	<170		170	55	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2,6-Dinitrotoluene	<170		170	68	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2-Chlorophenol	<170		170	59	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2-Methylnaphthalene	**28**	**J**	34	6.4	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
2-Nitrophenol	<340		340	82	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
3 & 4 Methylphenol	<170		170	58	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
4,6-Dinitro-2-methylphenol	<700	*	700	280	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
4-Bromophenyl phenyl ether	<170	*	170	46	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
4-Chloroaniline	<700		700	160	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
4-Nitrophenol	<700		700	330	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Acenaphthene	**120**		34	6.2	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Acenaphthylene	**170**		34	4.6	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Anthracene	**320**	*	34	5.8	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Benzo[a]anthracene	**970**	*	34	4.6	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Benzo[a]pyrene	**1000**	*	34	6.7	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Benzo[b]fluoranthene	**1500**	*	34	7.5	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Benzo[g,h,i]perylene	**510**	*	34	11	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Benzo[k]fluoranthene	**590**	*	34	10	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Bis(2-chloroethyl)ether	<170		170	52	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Bis(2-ethylhexyl) phthalate	<170	*	170	63	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Butyl benzyl phthalate	<170	*	170	66	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Carbazole	<170	*	170	86	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Chrysene	**1000**	*	34	9.4	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Dibenz(a,h)anthracene	<34	*	34	6.7	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Dibenzofuran	**49**	**J**	170	40	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Diethyl phthalate	<170		170	59	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Di-n-butyl phthalate	<170	*	170	53	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Di-n-octyl phthalate	<170	*	170	56	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Fluoranthene	**1200**	**B ***	34	6.4	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Fluorene	**200**		34	4.9	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Hexachlorobenzene	<70	*	70	8.0	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Hexachlorocyclopentadiene	<700		700	200	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Hexachloroethane	<170		170	53	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1

Client Sample ID: FPD-6(0-1)-031016
Date Collected: 03/10/16 11:22
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-18
Matrix: Solid
Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**550**	*	34	9.0	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Isophorone	<170		170	39	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Naphthalene	**22**	J	34	5.3	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Nitrobenzene	<34		34	8.6	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
N-Nitrosodi-n-propylamine	<70		70	42	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
N-Nitrosodiphenylamine	<170	*	170	41	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Pentachlorophenol	<700	*	700	550	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Phenanthrene	**1900**	B *	34	4.8	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1
Phenol	<170		170	77	ug/Kg	☼	03/14/16 07:02	03/23/16 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*40*		*35 - 137*	*03/14/16 07:02*	*03/23/16 10:22*	*1*
2-Fluorobiphenyl	*65*		*25 - 119*	*03/14/16 07:02*	*03/23/16 10:22*	*1*
2-Fluorophenol	*62*		*25 - 110*	*03/14/16 07:02*	*03/23/16 10:22*	*1*
Nitrobenzene-d5	*52*		*25 - 115*	*03/14/16 07:02*	*03/23/16 10:22*	*1*
Phenol-d5	*58*		*31 - 110*	*03/14/16 07:02*	*03/23/16 10:22*	*1*
Terphenyl-d14	*130*	*	*36 - 134*	*03/14/16 07:02*	*03/23/16 10:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**5400**	*	170	34	ug/Kg	☼	03/14/16 07:02	03/23/16 10:51	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 03:36	1
Barium	**0.29**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 03:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 03:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 03:36	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:36	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:36	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 03:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 03:36	1
Manganese	**1.2**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:36	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 03:36	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:36	1
Zinc	**0.30**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 03:36	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 13:24	1
Barium	**0.28**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 13:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 13:24	1
Cadmium	**0.0024**	J	0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 13:24	1
Chromium	**0.069**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:24	1
Cobalt	**0.017**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:24	1
Copper	**0.055**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:24	1
Iron	**56**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 13:24	1
Lead	**0.22**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 13:24	1

Client Sample ID: FPD-6(0-1)-031016
Date Collected: 03/10/16 11:22
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-18
Matrix: Solid
Percent Solids: 92.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.72		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:24	1
Nickel	0.049		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:24	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 13:24	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:24	1
Zinc	0.41	J	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 13:24	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.31	J	0.85	0.18	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Arsenic	2.3		0.43	0.20	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Barium	28		0.43	0.078	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Beryllium	0.21		0.17	0.037	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Cadmium	0.25		0.085	0.025	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Calcium	140000	B	85	27	mg/Kg	☼	03/16/16 11:30	03/20/16 03:16	10
Chromium	5.7		0.43	0.073	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Cobalt	2.5		0.21	0.048	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Copper	7.5		0.43	0.092	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Iron	5900	B	8.5	3.3	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Lead	35		0.21	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Magnesium	86000	B	43	17	mg/Kg	☼	03/16/16 11:30	03/20/16 03:16	10
Manganese	270	B	0.43	0.084	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Nickel	7.0		0.43	0.12	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Potassium	520		21	3.5	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Selenium	0.29	J	0.43	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Silver	<0.21		0.21	0.050	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Sodium	1200		43	5.6	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Thallium	<0.43		0.43	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Vanadium	7.8		0.21	0.062	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1
Zinc	46		0.85	0.27	mg/Kg	☼	03/16/16 11:30	03/19/16 07:59	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	16		16	8.4	ug/Kg	☼	03/18/16 15:00	03/19/16 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.99		0.200	0.200	SU			03/12/16 16:15	1

Client Sample ID: FPD-5(0-1)-031016
Date Collected: 03/10/16 11:30
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-19
Matrix: Solid
Percent Solids: 93.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.2	ug/Kg	☼		03/14/16 18:26	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 18:26	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/14/16 18:26	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:26	1
Bromomethane	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 18:26	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 18:26	1
Carbon tetrachloride	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:26	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:26	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/14/16 18:26	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 18:26	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:26	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:26	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 18:26	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/14/16 18:26	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:26	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		03/14/16 18:26	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 18:26	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 18:26	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 18:26	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:26	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/14/16 18:26	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/14/16 18:26	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 18:26	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:26	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:26	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:26	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.85	ug/Kg	☼		03/14/16 18:26	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 18:26	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 18:26	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:26	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 18:26	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 18:26	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 18:26	1
Trichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 18:26	1
Vinyl chloride	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 18:26	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/14/16 18:26*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*03/14/16 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/14/16 18:26*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*03/14/16 18:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1

Client Sample ID: FPD-5(0-1)-031016
Date Collected: 03/10/16 11:30
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-19
Matrix: Solid
Percent Solids: 93.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2-Methylphenol	<180		180	56	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Acenaphthylene	**35**		35	4.6	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Anthracene	**21**	**J**	35	5.9	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Benzo[a]anthracene	**170**		35	4.7	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Benzo[a]pyrene	**240**	*	35	6.8	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Benzo[b]fluoranthene	**390**	*	35	7.6	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Benzo[g,h,i]perylene	**110**	*	35	11	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Benzo[k]fluoranthene	**160**	*	35	10	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Carbazole	<180		180	88	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Chrysene	**190**		35	9.6	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Fluoranthene	**270**	**B**	35	6.5	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Fluorene	<35		35	4.9	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Hexachloroethane	<180		180	53	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1

Client Sample ID: FPD-5(0-1)-031016
Date Collected: 03/10/16 11:30
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-19
Matrix: Solid
Percent Solids: 93.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**98**	*	35	9.1	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Isophorone	<180		180	39	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Phenanthrene	**65**	B	35	4.9	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Phenol	<180		180	78	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1
Pyrene	**360**		35	7.0	ug/Kg	☼	03/14/16 07:02	03/23/16 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*35 - 137*	*03/14/16 07:02*	*03/23/16 17:45*	*1*
2-Fluorobiphenyl	*60*		*25 - 119*	*03/14/16 07:02*	*03/23/16 17:45*	*1*
2-Fluorophenol	*65*		*25 - 110*	*03/14/16 07:02*	*03/23/16 17:45*	*1*
Nitrobenzene-d5	*57*		*25 - 115*	*03/14/16 07:02*	*03/23/16 17:45*	*1*
Phenol-d5	*62*		*31 - 110*	*03/14/16 07:02*	*03/23/16 17:45*	*1*
Terphenyl-d14	*97*		*36 - 134*	*03/14/16 07:02*	*03/23/16 17:45*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 03:41	1
Barium	**0.16**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 03:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 03:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 03:41	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:41	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:41	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:41	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 03:41	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 03:41	1
Manganese	**1.1**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:41	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 03:41	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 03:41	1
Zinc	**0.056**	J B	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 03:41	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 13:28	1
Barium	**0.16**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 13:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 13:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 13:28	1
Chromium	**0.044**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:28	1
Cobalt	**0.012**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:28	1
Copper	**0.052**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:28	1
Iron	**45**		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 13:28	1
Lead	**0.21**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 13:28	1
Manganese	**0.72**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:28	1
Nickel	**0.034**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:28	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 13:28	1

Client Sample ID: FPD-5(0-1)-031016
Date Collected: 03/10/16 11:30
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108662-19
Matrix: Solid
Percent Solids: 93.1

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 13:28	1
Zinc	**0.35**	**J**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 13:28	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.22**	**J**	0.83	0.17	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Arsenic	**3.1**		0.42	0.19	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Barium	**28**		0.42	0.076	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Beryllium	**0.46**		0.17	0.036	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Cadmium	**0.26**		0.083	0.024	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Calcium	**120000**	**B**	83	27	mg/Kg	☼	03/16/16 11:30	03/20/16 03:21	10
Chromium	**7.7**		0.42	0.072	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Cobalt	**3.6**		0.21	0.047	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Copper	**9.4**		0.42	0.090	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Iron	**7600**	**B**	8.3	3.2	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Lead	**63**		0.21	0.10	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Magnesium	**69000**	**B**	42	17	mg/Kg	☼	03/16/16 11:30	03/20/16 03:21	10
Manganese	**290**	**B**	0.42	0.083	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Nickel	**7.9**		0.42	0.11	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Potassium	**590**		21	3.4	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Selenium	**0.23**	**J**	0.42	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Silver	<0.21		0.21	0.049	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Sodium	**1800**		42	5.5	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Thallium	<0.42		0.42	0.21	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Vanadium	**7.7**		0.21	0.061	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1
Zinc	**52**		0.83	0.26	mg/Kg	☼	03/16/16 11:30	03/19/16 08:04	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/19/16 18:45	03/21/16 13:33	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**22**		16	8.6	ug/Kg	☼	03/18/16 15:00	03/19/16 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.99**		0.200	0.200	SU			03/12/16 16:20	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108662-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTA

2417 Bond Street, University Park, IL 6
Phone: 708.534.5200 Fax: 708.5

500-108662 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

Bill To (optional)
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 3.4

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: Alistair Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs (Pres. 7)	SVOCs (Pres. 7)	Total Metals (Pres. 7)	TCLP/SPLP Metals (Pres. 7)	pH (Pres. 7)					Comments
1		VLS1-3(0-1)-031016	031016	0835	2	S	X	X	X	X	X					
2		VLS1-2(0-1)-031016	↓	0847	↓	↓	↓	↓	↓	↓	↓					
3		VLS1-2(0-1)-031016D	↓	0847	↓	↓	↓	↓	↓	↓	↓					
4		VLS1-1(0-1)-031016	↓	0900	↓	↓	↓	↓	↓	↓	↓					
5		ALS6-4(0-1)-031016	↓	0916	↓	↓	↓	↓	↓	↓	↓					
6		ALS6-3(0-1)-031016	↓	0924	↓	↓	↓	↓	↓	↓	↓					
7		ALS6-2(0-1)-031016	↓	0935	↓	↓	↓	↓	↓	↓	↓					
8		ALS6-1(0-1)-031016	↓	0951	↓	↓	↓	↓	↓	↓	↓					
9		VLS8-4(0-1)-031016	↓	1005	↓	↓	↓	↓	↓	↓	↓					
10		VLS8-3(0-1)-031016	↓	1020	↓	↓	↓	↓	↓	↓	↓					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Per contract Other
Requested Due Date ___

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
A. [signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	Sherri Scott	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209) 3/24/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)
Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108662
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler:

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT039-IL Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
		Parameter						VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		VL58-2(0-1)-031016	031016	1025	2	S		X	X	X	X	X					
12		VL58-2(0-1)-031016D		1025				X	X	X	X	X					
13		VL58-1(0-1)-031016		1035				X	X	X	X	X					
14		BP-3(0-1)-031016		1045				X	X	X	X	X					
15		BP-2(0-1)-031016		1100				X	X	X	X	X					
16		BP-1(0-1)-031016		1110				X	X	X	X	X					
17		FPD-7(0-1)-031016		1116				X	X	X	X	X					
18		FPD-6(0-1)-031016		1122				X	X	X	X	X					
19		FPD-5(0-1)-031016		1130				X	X	X	X	X					
20		FPD-4(0-1)-031016		1141				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Quickturnaround Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	031016	1600	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108663-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 10:10:31 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: FPD-2(0-1)-031016
Date Collected: 03/10/16 12:10
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-3
Matrix: Solid
Percent Solids: 90.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/14/16 14:33	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 14:33	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/14/16 14:33	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:33	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/14/16 14:33	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 14:33	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 14:33	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:33	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/14/16 14:33	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:33	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:33	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:33	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:33	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/14/16 14:33	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:33	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		03/14/16 14:33	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 14:33	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 14:33	1
1,3-Dichloropropene, Total	<5.5		5.5	1.6	ug/Kg	☼		03/14/16 14:33	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 14:33	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/14/16 14:33	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/14/16 14:33	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 14:33	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:33	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:33	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:33	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.88	ug/Kg	☼		03/14/16 14:33	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:33	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/14/16 14:33	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 14:33	1
trans-1,3-Dichloropropene	<5.5		5.5	1.6	ug/Kg	☼		03/14/16 14:33	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 14:33	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 14:33	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 14:33	1
Vinyl chloride	<5.5	*	5.5	1.3	ug/Kg	☼		03/14/16 14:33	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/14/16 14:33*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/14/16 14:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/14/16 14:33*	*1*
Toluene-d8 (Surr)	*110*		*75 - 122*		*03/14/16 14:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1

Client Sample ID: FPD-2(0-1)-031016
Date Collected: 03/10/16 12:10
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-3
Matrix: Solid
Percent Solids: 90.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2,4-Dinitrophenol	<730		730	630	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2-Methylnaphthalene	<36		36	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
4-Nitrophenol	<730		730	340	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Acenaphthene	<36		36	6.5	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Acenaphthylene	**21**	**J**	36	4.8	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Anthracene	**19**	**J**	36	6.0	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Benzo[a]anthracene	**120**	*	36	4.8	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Benzo[a]pyrene	**180**	*	36	7.0	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Benzo[b]fluoranthene	**300**	*	36	7.8	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Benzo[g,h,i]perylene	**150**	*	36	12	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Benzo[k]fluoranthene	**110**	*	36	11	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Bis(2-ethylhexyl) phthalate	**120**	**J ***	180	66	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Carbazole	<180		180	90	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Chrysene	**160**	*	36	9.8	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Dibenz(a,h)anthracene	**33**	**J ***	36	7.0	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Fluoranthene	**230**		36	6.7	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Fluorene	**6.1**	**J**	36	5.1	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108663-1

Client Sample ID: FPD-2(0-1)-031016
Date Collected: 03/10/16 12:10
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-3
Matrix: Solid
Percent Solids: 90.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**120**	*	36	9.3	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Isophorone	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Naphthalene	<36		36	5.5	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Phenanthrene	**110**		36	5.0	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Phenol	<180		180	80	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1
Pyrene	**410**	*	36	7.2	ug/Kg	☼	03/15/16 07:01	03/22/16 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*35 - 137*	*03/15/16 07:01*	*03/22/16 03:33*	*1*
2-Fluorobiphenyl	*84*		*25 - 119*	*03/15/16 07:01*	*03/22/16 03:33*	*1*
2-Fluorophenol	*88*		*25 - 110*	*03/15/16 07:01*	*03/22/16 03:33*	*1*
Nitrobenzene-d5	*74*		*25 - 115*	*03/15/16 07:01*	*03/22/16 03:33*	*1*
Phenol-d5	*88*		*31 - 110*	*03/15/16 07:01*	*03/22/16 03:33*	*1*
Terphenyl-d14	*190*	*X *	*36 - 134*	*03/15/16 07:01*	*03/22/16 03:33*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 11:25	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 11:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 11:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 11:25	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:25	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:25	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:25	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 11:25	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 11:25	1
Manganese	**1.1**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:25	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:25	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 11:25	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:25	1
Zinc	**0.075**	**J**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 11:25	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**	**J**	0.050	0.010	mg/L		03/21/16 09:00	03/21/16 21:19	1
Barium	**0.25**	**J**	0.50	0.050	mg/L		03/21/16 09:00	03/21/16 21:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/21/16 21:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/21/16 21:19	1
Chromium	**0.056**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:19	1
Copper	**0.028**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:19	1
Iron	**50**		0.40	0.20	mg/L		03/21/16 09:00	03/21/16 21:19	1
Lead	**0.045**		0.0075	0.0075	mg/L		03/21/16 09:00	03/21/16 21:19	1
Manganese	**0.33**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:19	1
Nickel	**0.032**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/21/16 21:19	1

Client Sample ID: FPD-2(0-1)-031016

Date Collected: 03/10/16 12:10
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-3

Matrix: Solid
Percent Solids: 90.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:19	1
Zinc	**0.22**	**J B**	0.50	0.020	mg/L		03/21/16 09:00	03/21/16 21:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.33**	**J**	0.92	0.19	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Arsenic	**3.6**		0.46	0.21	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Barium	**38**		0.46	0.084	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Beryllium	**0.25**		0.18	0.040	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Cadmium	**0.21**		0.092	0.027	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Calcium	**100000**	**B**	92	30	mg/Kg	☼	03/16/16 11:15	03/20/16 04:02	10
Chromium	**10**		0.46	0.079	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Cobalt	**2.6**		0.23	0.052	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Copper	**9.7**		0.46	0.10	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Iron	**6700**		9.2	3.6	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Lead	**49**		0.23	0.11	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Magnesium	**44000**	**B**	4.6	1.9	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Manganese	**200**		0.46	0.091	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Nickel	**7.2**		0.46	0.12	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Potassium	**570**		23	3.8	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Selenium	<0.46		0.46	0.23	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Silver	<0.23		0.23	0.054	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Sodium	**840**		46	6.1	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Thallium	<0.46		0.46	0.23	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Vanadium	**9.7**		0.23	0.067	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1
Zinc	**63**		0.92	0.29	mg/Kg	☼	03/16/16 11:15	03/19/16 04:13	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 21:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**		17	8.8	ug/Kg	☼	03/18/16 15:00	03/19/16 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.15**		0.200	0.200	SU			03/14/16 15:22	1

Client Sample ID: FPD-1(0-1)-031016
Date Collected: 03/10/16 12:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-4
Matrix: Solid
Percent Solids: 89.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/14/16 14:58	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 14:58	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/14/16 14:58	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 14:58	1
Bromomethane	<5.6	*	5.6	2.1	ug/Kg	☼		03/14/16 14:58	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/14/16 14:58	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 14:58	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 14:58	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/14/16 14:58	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 14:58	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 14:58	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 14:58	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 14:58	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/14/16 14:58	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 14:58	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/14/16 14:58	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/14/16 14:58	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/14/16 14:58	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/14/16 14:58	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/14/16 14:58	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/14/16 14:58	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/14/16 14:58	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/14/16 14:58	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 14:58	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 14:58	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 14:58	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/14/16 14:58	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/14/16 14:58	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/14/16 14:58	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/14/16 14:58	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/14/16 14:58	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/14/16 14:58	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/14/16 14:58	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/14/16 14:58	1
Vinyl chloride	<5.6	*	5.6	1.3	ug/Kg	☼		03/14/16 14:58	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/14/16 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 122*		*03/14/16 14:58*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/14/16 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*03/14/16 14:58*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/14/16 14:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1

Client Sample ID: FPD-1(0-1)-031016
Date Collected: 03/10/16 12:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-4
Matrix: Solid
Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2,4-Dinitrophenol	<740		740	640	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2-Methylnaphthalene	**6.7**	**J**	36	6.7	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
4,6-Dinitro-2-methylphenol	<740		740	290	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Acenaphthene	**14**	**J**	36	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Acenaphthylene	**220**		36	4.8	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Anthracene	**100**		36	6.1	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Benzo[a]anthracene	**600**	*	36	4.9	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Benzo[a]pyrene	**930**	*	36	7.1	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Benzo[b]fluoranthene	**1400**	*	36	7.9	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Benzo[g,h,i]perylene	**690**	*	36	12	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Benzo[k]fluoranthene	**540**	*	36	11	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Bis(2-ethylhexyl) phthalate	**170**	**J ***	180	67	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Butyl benzyl phthalate	**87**	**J ***	180	69	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Carbazole	<180		180	91	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Chrysene	**660**	*	36	10	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Dibenz(a,h)anthracene	**140**	*	36	7.1	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Fluoranthene	**730**		36	6.8	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Fluorene	**22**	**J**	36	5.1	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1

Client Sample ID: FPD-1(0-1)-031016
Date Collected: 03/10/16 12:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-4
Matrix: Solid
Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**650**	*	36	9.5	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Isophorone	<180		180	41	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Naphthalene	**11**	J	36	5.6	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Phenanthrene	**200**		36	5.1	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Phenol	<180		180	81	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1
Pyrene	**1500**	*	36	7.2	ug/Kg	☼	03/15/16 07:01	03/22/16 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*35 - 137*	*03/15/16 07:01*	*03/22/16 04:02*	*1*
2-Fluorobiphenyl	*78*		*25 - 119*	*03/15/16 07:01*	*03/22/16 04:02*	*1*
2-Fluorophenol	*81*		*25 - 110*	*03/15/16 07:01*	*03/22/16 04:02*	*1*
Nitrobenzene-d5	*68*		*25 - 115*	*03/15/16 07:01*	*03/22/16 04:02*	*1*
Phenol-d5	*83*		*31 - 110*	*03/15/16 07:01*	*03/22/16 04:02*	*1*
Terphenyl-d14	*177*	*X	*36 - 134*	*03/15/16 07:01*	*03/22/16 04:02*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 11:30	1
Barium	**0.30**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 11:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 11:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 11:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:30	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:30	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:30	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 11:30	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 11:30	1
Manganese	**1.2**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:30	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 11:30	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:30	1
Zinc	**0.16**	J	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 11:30	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/21/16 21:23	1
Barium	**0.21**	J	0.50	0.050	mg/L		03/21/16 09:00	03/21/16 21:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/21/16 21:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/21/16 21:23	1
Chromium	**0.049**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:23	1
Copper	**0.040**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:23	1
Iron	**36**		0.40	0.20	mg/L		03/21/16 09:00	03/21/16 21:23	1
Lead	**0.13**		0.0075	0.0075	mg/L		03/21/16 09:00	03/21/16 21:23	1
Manganese	**0.38**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:23	1
Nickel	**0.028**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/21/16 21:23	1

Client Sample ID: FPD-1(0-1)-031016
Date Collected: 03/10/16 12:24
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-4
Matrix: Solid
Percent Solids: 89.1

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:23	1
Zinc	**0.36**	**J B**	0.50	0.020	mg/L		03/21/16 09:00	03/21/16 21:23	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.97		0.97	0.20	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Arsenic	**2.2**		0.49	0.23	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Barium	**35**		0.49	0.089	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Beryllium	**0.27**		0.19	0.042	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Cadmium	**0.24**		0.097	0.028	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Calcium	**120000**	**B**	97	31	mg/Kg	☼	03/16/16 11:15	03/20/16 04:06	10
Chromium	**13**		0.49	0.084	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Cobalt	**2.6**		0.24	0.055	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Copper	**12**		0.49	0.11	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Iron	**6100**		9.7	3.8	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Lead	**66**		0.24	0.12	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Magnesium	**72000**	**B**	49	20	mg/Kg	☼	03/16/16 11:15	03/20/16 04:06	10
Manganese	**220**		0.49	0.096	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Nickel	**6.9**		0.49	0.13	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Potassium	**580**		24	4.0	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Selenium	**0.41**	**J**	0.49	0.24	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Sodium	**970**		49	6.4	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Vanadium	**8.0**		0.24	0.071	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1
Zinc	**58**		0.97	0.31	mg/Kg	☼	03/16/16 11:15	03/19/16 04:18	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 21:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<16		16	8.6	ug/Kg	☼	03/18/16 15:00	03/19/16 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.29**		0.200	0.200	SU			03/14/16 15:26	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
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.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108663-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-108663 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 3.0

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039-1C Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Mercury	TCLP SPLP Metals	pH					
1		FPD-3(0-1)-031016	031016	1205	2	S		X	X	X	X	X					
2		FPD-3(0-1)-031016 D		1205				X	X	X	X	X					
3		FPD-2(0-1)-031016		1210				X	X	X	X	X					
4		FPD-1(0-1)-031016		1224				X	X	X	X	X					
5		R67-3(0-1)-031016		1300				X	X	X	X	X					
6		R67-2(0-1)-031016		1311				X	X	X	X	X					
7		R67-1(0-1)-031016		1323				X	X	X	X	X					
8		SH-2(0-1)-031016		1339				X	X	X	X	X					
9		SH-1(0-1)-031016		1355				X	X	X	X	X					
10		R72-2(0-1)-031016		1406				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Redacted Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[redacted]	WESTON	031016	1610	[redacted]	TA	3/10/16	1600
[redacted]	TA	3/10/16	1655	[redacted]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

Client: WESTON
Client Project #:
Project Name: IDOT 039-1L Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		RT2-1(0-1)-031016	031016	1415	2	S		X	X	X	X	X					
12		IB-1(0-1)-031016	031016	1435	2	S		X	X	X	X	X					
13		IB-2(0-1)-031016		1445	2	S		X	X	X	X	X					
14		IB-3(0-1)-031016		1455	2	S		X	X	X	X	X					
15		IB-4(0-1)-031016		1510	2	S		X	X	X	X	X					
16		IB-5(0-1)-031016		1517	2	S		X	X	X	X	X					
17		AL3-5(0-1)-031016		1540	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rel Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	03/10/16	1615	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

1960 S. Water Street (ISGS Site No. 2946-63)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.280231619 (Decimal Degrees) Longitude: -88.128560372 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.280231619 Longitude: -88.128560372

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATIONS R63-1 AND R63-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-63. SEE FIGURE 3-2 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB IDs: 500-108388-1 AND 500-108390-1.
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-63
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R63-1(0-1)-030416	R63-2(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	R63-1	R63-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-63	2946-63	
Parameter			
Laboratory pH (s.u.)	7.12	7.69	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
2-Methylnaphthalene	12 J	ND	---
Acenaphthene	ND	7.6 J	570000
Acenaphthylene	7.5 J	ND	---
Anthracene	26 J	24 J	1.20E+07
Benzo(a)anthracene	220	140	900 / 1100 / 1800
Benzo(a)pyrene	300	170 J	90 / 1300 / 2100
Benzo(b)fluoranthene	520	320 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	120 J	87 J	---
Benzo(k)fluoranthene	170 J	120 J	9000
bis(2-Ethylhexyl)phthalate	120 J	ND	46000
Chrysene	270	180	88000
Fluoranthene	280	300	3100000
Fluorene	7 J	ND	560000
Indeno(1,2,3-cd)pyrene	150 J	73 J	900 / 900 / 1600
Naphthalene, SVOC	8.2 J	ND	1800
Phenanthrene	120	150	---
Pyrene	430	370	2300000
Total Metals (mg/kg)			
Antimony, Total	0.26 J	ND	5
Arsenic, Total	3	4.8	11.3 / 13
Barium, Total	38 J	68 J-	1500
Beryllium, Total	0.34	0.33	22
Cadmium, Total	0.35	0.32	5.2
Calcium, Total	120000 J	27000 J	---
Chromium, Total	11 J-	11 J-	21
Cobalt, Total	3.4 J	4.8	20
Copper, Total	14 J-	15	2900
Iron, Total	7300 J+	9300 J	15000 / 15900
Lead, Total	26 J	38 J	107
Magnesium, Total	77000 J	16000 J	325000
Manganese, Total	360 J	370 J	630 / 636
Mercury, Total	0.028	ND	0.89
Nickel, Total	8.6 B	9.1	100
Potassium, Total	750 J	670 J+	---
Selenium, Total	0.33 J	0.29 J	1.3
Sodium, Total	360	720 J-	---
Vanadium, Total	11	15	550
Zinc, Total	79 J	80	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.26 J	0.37 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	0.0037 J	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.57	0.76	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5

Summary Table of ISGS Site No. 2946-63
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R63-1(0-1)-030416	R63-2(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	R63-1	R63-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-63	2946-63	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.029 J	0.05
Barium, SPLP	0.068 J	0.39 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.015 J	0.076 J	0.1
Cobalt, SPLP	ND	0.015 J	1
Copper, SPLP	0.016 J	0.065	0.65
Iron, SPLP	13 J+	72 J	5
Lead, SPLP	0.026	0.11 J-	0.0075
Manganese, SPLP	0.2	0.8	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.01 J	0.05 J	0.1
Selenium, SPLP	ND	ND	0.05
Zinc, SPLP	0.15 J	0.41 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

B - Constituent detected in the blank and investigative sample.

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: 500-108388-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/14/2016 2:39:41 PM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/05/16 19:32	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 19:32	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/05/16 19:32	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 19:32	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/05/16 19:32	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 19:32	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/05/16 19:32	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 19:32	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/05/16 19:32	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/05/16 19:32	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/05/16 19:32	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 19:32	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 19:32	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 19:32	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 19:32	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/05/16 19:32	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/05/16 19:32	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/05/16 19:32	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/05/16 19:32	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/05/16 19:32	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/05/16 19:32	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/05/16 19:32	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/05/16 19:32	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/05/16 19:32	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/05/16 19:32	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/05/16 19:32	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/05/16 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/05/16 19:32*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/05/16 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/05/16 19:32*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/05/16 19:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	86	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Methylnaphthalene	**12**	**J**	38	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
2-Nitrophenol	<380		380	89	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4,6-Dinitro-2-methylphenol	<760		760	300	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Acenaphthylene	**7.5**	**J**	38	5.0	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Anthracene	**26**	**J**	38	6.3	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Bis(2-ethylhexyl) phthalate	**120**	**J ***	190	69	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Butyl benzyl phthalate	<190	*	190	72	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Carbazole	<190		190	95	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Fluoranthene	**280**		38	7.0	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Fluorene	**7.0**	**J**	38	5.3	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Naphthalene	**8.2**	**J**	38	5.8	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Nitrobenzene	<38		38	9.4	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
N-Nitrosodi-n-propylamine	<76		76	46	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1
Phenanthrene	**120**		38	5.3	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<190		190	84	ug/Kg	☼	03/07/16 16:59	03/09/16 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*35 - 137*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
2-Fluorobiphenyl	*88*		*25 - 119*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
2-Fluorophenol	*74*		*25 - 110*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
Nitrobenzene-d5	*79*		*25 - 115*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
Phenol-d5	*65*		*31 - 110*	*03/07/16 16:59*	*03/09/16 06:20*	*1*
Terphenyl-d14	*220*	*X **	*36 - 134*	*03/07/16 16:59*	*03/09/16 06:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**220**		190	25	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[a]pyrene	**300**		190	37	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[b]fluoranthene	**520**		190	41	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[g,h,i]perylene	**120**	**J**	190	61	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Benzo[k]fluoranthene	**170**	**J**	190	56	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Chrysene	**270**		190	52	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Dibenz(a,h)anthracene	<190		190	37	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Indeno[1,2,3-cd]pyrene	**150**	**J**	190	49	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5
Pyrene	**430**		190	38	ug/Kg	☼	03/07/16 16:59	03/10/16 15:01	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Barium	**0.26**	**J**	0.50	0.050	mg/L		03/08/16 14:47	03/09/16 14:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:47	03/09/16 14:33	1
Cadmium	**0.0037**	**J**	0.0050	0.0020	mg/L		03/08/16 14:47	03/09/16 14:33	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Copper	**0.010**	**J B**	0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:47	03/09/16 14:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:47	03/09/16 14:33	1
Manganese	**0.57**		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:47	03/09/16 14:33	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:47	03/09/16 14:33	1
Zinc	**0.29**	**J B**	0.50	0.020	mg/L		03/08/16 14:47	03/09/16 14:33	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Barium	**0.068**	**J**	0.50	0.050	mg/L		03/09/16 08:45	03/10/16 06:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:45	03/10/16 06:47	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:45	03/10/16 06:47	1
Chromium	**0.015**	**J**	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Cobalt	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Copper	**0.016**	**J**	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Iron	**13**		0.40	0.20	mg/L		03/09/16 08:45	03/10/16 06:47	1
Lead	**0.026**		0.0075	0.0075	mg/L		03/09/16 08:45	03/10/16 06:47	1

Client Sample ID: R63-1(0-1)-030416
Date Collected: 03/04/16 12:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108388-7
Matrix: Solid
Percent Solids: 85.0

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.20		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Nickel	0.010	J	0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:45	03/10/16 06:47	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:45	03/10/16 06:47	1
Zinc	0.15	J	0.50	0.020	mg/L		03/09/16 08:45	03/10/16 06:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.26	J F1	0.91	0.19	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Arsenic	3.0		0.46	0.21	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Barium	38	F2	0.46	0.083	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Beryllium	0.34		0.18	0.039	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Cadmium	0.35		0.091	0.026	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Calcium	120000		91	29	mg/Kg	☼	03/06/16 09:10	03/07/16 13:02	10
Chromium	11	B F1	0.46	0.078	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Cobalt	3.4	F2	0.23	0.051	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Copper	14	F1	0.46	0.099	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Iron	7300	B	9.1	3.5	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Lead	26		0.23	0.11	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Magnesium	77000		46	18	mg/Kg	☼	03/06/16 09:10	03/07/16 13:02	10
Manganese	360	F2	0.46	0.090	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Nickel	8.6	B	0.46	0.12	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Potassium	750	F1 F2	23	3.7	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Selenium	0.33	J	0.46	0.23	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Sodium	360		46	6.0	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Thallium	<0.46		0.46	0.22	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Vanadium	11		0.23	0.066	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1
Zinc	79	F2 F1	0.91	0.29	mg/Kg	☼	03/06/16 09:10	03/07/16 10:47	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/09/16 13:25	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		17	8.9	ug/Kg	☼	03/07/16 19:00	03/11/16 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.12		0.200	0.200	SU			03/07/16 16:27	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

GC 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.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108388-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108388

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 2.7

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company: SAME
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address:
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		**Parameter**
IDOT 039		
Project Location/State	**Lab Project #**	
Wilmington, IL		
Sampler	**Lab PM**	
A. Tuckasz	Dick Wright	

Preservative Key
1. HCL, Cool to 4°
Cool to 4°
ol to 4°
ol to 4°
, Cool to 4°

500-108388 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metals	TCLP/SPLP Metals	PH	PCB's				Comments
1		VLGO-1(0-1)-030416	3/4/16	1344	2	S	X	X	X	X	X	X				
2		VLGO-1(0-1)-030416D	3/4/16	1344	2	S	X	X	X	X	X	X				
3		VLGO-2(0-1)-030416	3/4/16	1405	2	S	X	X	X	X	X	X				
4		VLGO-3(0-1)-030416	3/4/16	1420	2	S	X	X	X	X	X	X				
5		APS-1(0-1)-030416	3/4/16	1435	2	S	X	X	X	X	X					
6		PP-1(0-1)-030416	3/4/16	1515	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI

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:

TAL-4124-500 (1209)

3/14/2016

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: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/06/16 18:18	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/06/16 18:18	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/06/16 18:18	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 18:18	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 18:18	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/06/16 18:18	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/06/16 18:18	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/06/16 18:18	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		03/06/16 18:18	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 18:18	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/06/16 18:18	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/06/16 18:18	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/06/16 18:18	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/06/16 18:18	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/06/16 18:18	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/06/16 18:18	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/06/16 18:18	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/06/16 18:18	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/06/16 18:18	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/06/16 18:18	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 18:18	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/06/16 18:18	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 18:18	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/06/16 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/06/16 18:18*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*03/06/16 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/06/16 18:18*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/06/16 18:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Acenaphthene	**7.6**	**J**	38	6.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Anthracene	**24**	**J**	38	6.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[a]anthracene	**140**		38	5.2	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[a]pyrene	**170**	*	38	7.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[b]fluoranthene	**320**	*	38	8.3	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[g,h,i]perylene	**87**	*	38	12	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Benzo[k]fluoranthene	**120**	*	38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Carbazole	<190		190	96	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Chrysene	**180**		38	11	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Dibenz(a,h)anthracene	<38	*	38	7.5	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Fluoranthene	**300**		38	7.2	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Fluorene	<38		38	5.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**73**	*	38	10	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Isophorone	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Naphthalene	<38		38	5.9	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Phenanthrene	**150**		38	5.4	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Phenol	<190		190	86	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1
Pyrene	**370**		38	7.7	ug/Kg	☼	03/07/16 16:21	03/09/16 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*35 - 137*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
2-Fluorobiphenyl	*75*		*25 - 119*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
2-Fluorophenol	*66*		*25 - 110*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
Nitrobenzene-d5	*77*		*25 - 115*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
Phenol-d5	*63*		*31 - 110*	*03/07/16 16:21*	*03/09/16 18:25*	*1*
Terphenyl-d14	*129*		*36 - 134*	*03/07/16 16:21*	*03/09/16 18:25*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 19:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 19:19	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 19:19	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 19:19	1
Manganese	**0.76**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 19:19	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 19:19	1
Zinc	**0.85**	**B**	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 19:19	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		03/09/16 08:43	03/10/16 04:47	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 04:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 04:47	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 04:47	1
Chromium	**0.076**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Copper	**0.065**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Iron	**72**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 04:47	1
Lead	**0.11**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 04:47	1
Manganese	**0.80**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Nickel	**0.050**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 04:47	1

Client Sample ID: R63-2(0-1)-030416
Date Collected: 03/04/16 12:50
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-17
Matrix: Solid
Percent Solids: 83.3

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:47	1
Zinc	**0.41**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 04:47	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.95		0.95	0.20	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Arsenic	**4.8**		0.48	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Barium	**68**		0.48	0.087	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Beryllium	**0.33**		0.19	0.041	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Cadmium	**0.32**		0.095	0.028	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Calcium	**27000**	**B**	9.5	3.1	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Chromium	**11**	**B**	0.48	0.082	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Cobalt	**4.8**		0.24	0.054	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Copper	**15**		0.48	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Iron	**9300**	**B**	9.5	3.7	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Lead	**38**		0.24	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Magnesium	**16000**	**B**	4.8	1.9	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Manganese	**370**		0.48	0.094	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Nickel	**9.1**		0.48	0.13	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Potassium	**670**		24	3.9	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Selenium	**0.29**	**J**	0.48	0.24	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Sodium	**720**		48	6.3	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Thallium	<0.48		0.48	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Vanadium	**15**		0.24	0.069	mg/Kg	☼	03/06/16 09:35	03/07/16 22:15	1
Zinc	**80**		9.5	3.0	mg/Kg	☼	03/06/16 09:35	03/08/16 15:49	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:37	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:47	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.5	ug/Kg	☼	03/07/16 19:00	03/11/16 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.69**		0.200	0.200	SU			03/07/16 15:38	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):

1910 S. Water Street (ISGS Site No. 2946-64)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.282591076 (Decimal Degrees) Longitude: -88.129581105 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.282591076 Longitude: -88.129581105

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 R64-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-64. SEE FIGURE 3-2 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108390-1.
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional ~~Geologist~~ Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-64
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R64-1(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	
Location ID	R64-1	
Depth	0 - 1	
ISGS Site No.	2946-64	
Parameter		
Laboratory pH (s.u.)	8.55	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthylene	26 J	---
Anthracene	30 J	1.20E+07
Benzo(a)anthracene	170	900 / 1100 / 1800
Benzo(a)pyrene	240 J	90 / 1300 / 2100
Benzo(b)fluoranthene	450 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	100 J	---
Benzo(k)fluoranthene	150 J	9000
bis(2-Ethylhexyl)phthalate	98 J	46000
Chrysene	210	88000
Dibenzo(a,h)anthracene	28 J	90 / 200 / 420
Fluoranthene	400	3100000
Fluorene	9.5 J	560000
Indeno(1,2,3-cd)pyrene	110 J	900 / 900 / 1600
Phenanthrene	160	---
Pyrene	450	2300000
Total Metals (mg/kg)		
Arsenic, Total	7.7	11.3 / 13
Barium, Total	62 J-	1500
Beryllium, Total	0.4	22
Cadmium, Total	0.25	5.2
Calcium, Total	11000 J	---
Chromium, Total	8.7 J-	21
Cobalt, Total	5.4	20
Copper, Total	8.1	2900
Iron, Total	9800 J	15000 / 15900
Lead, Total	36 J	107
Magnesium, Total	6600 J	325000
Manganese, Total	360 J	630 / 636
Nickel, Total	7.9	100
Potassium, Total	580 J+	---
Selenium, Total	0.27 J	1.3
Sodium, Total	1600 J-	---
Vanadium, Total	14	550
Zinc, Total	45	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.31 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.29	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	ND	5

Summary Table of ISGS Site No. 2946-64
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R64-1(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	
Location ID	R64-1	
Depth	0 - 1	
ISGS Site No.	2946-64	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.053	0.05
Barium, SPLP	0.56	2
Beryllium, SPLP	0.0042	0.004
Cadmium, SPLP	0.0024 J	0.005
Chromium, SPLP	0.1 J	0.1
Cobalt, SPLP	0.024 J	1
Copper, SPLP	0.076	0.65
Iron, SPLP	96 J	5
Lead, SPLP	0.31 J-	0.0075
Manganese, SPLP	1.8	0.15
Nickel, SPLP	0.067 J	0.1
Selenium, SPLP	ND	0.05
Zinc, SPLP	0.57	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Client Sample ID: R64-1(0-1)-030416
Date Collected: 03/04/16 11:36
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-14
Matrix: Solid
Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/06/16 16:59	1
Benzene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 16:59	1
Bromodichloromethane	<5.8		5.8	0.98	ug/Kg	☼		03/06/16 16:59	1
Bromoform	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 16:59	1
Bromomethane	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 16:59	1
Carbon disulfide	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 16:59	1
Carbon tetrachloride	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 16:59	1
Chlorobenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 16:59	1
Chloroethane	<5.8		5.8	2.4	ug/Kg	☼		03/06/16 16:59	1
Chloroform	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 16:59	1
Chloromethane	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 16:59	1
cis-1,2-Dichloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 16:59	1
cis-1,3-Dichloropropene	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 16:59	1
Dibromochloromethane	<5.8		5.8	0.67	ug/Kg	☼		03/06/16 16:59	1
1,1-Dichloroethane	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 16:59	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		03/06/16 16:59	1
1,1-Dichloroethene	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 16:59	1
1,2-Dichloropropane	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 16:59	1
1,3-Dichloropropene, Total	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 16:59	1
Ethylbenzene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 16:59	1
2-Hexanone	<5.8		5.8	1.8	ug/Kg	☼		03/06/16 16:59	1
Methylene Chloride	<5.8		5.8	4.4	ug/Kg	☼		03/06/16 16:59	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		03/06/16 16:59	1
methyl isobutyl ketone	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 16:59	1
Methyl tert-butyl ether	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 16:59	1
Styrene	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 16:59	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	0.92	ug/Kg	☼		03/06/16 16:59	1
Tetrachloroethene	<5.8		5.8	1.2	ug/Kg	☼		03/06/16 16:59	1
Toluene	<5.8		5.8	2.0	ug/Kg	☼		03/06/16 16:59	1
trans-1,2-Dichloroethene	<5.8		5.8	1.5	ug/Kg	☼		03/06/16 16:59	1
trans-1,3-Dichloropropene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 16:59	1
1,1,1-Trichloroethane	<5.8		5.8	1.3	ug/Kg	☼		03/06/16 16:59	1
1,1,2-Trichloroethane	<5.8		5.8	1.1	ug/Kg	☼		03/06/16 16:59	1
Trichloroethene	<5.8		5.8	1.6	ug/Kg	☼		03/06/16 16:59	1
Vinyl chloride	<5.8		5.8	1.4	ug/Kg	☼		03/06/16 16:59	1
Xylenes, Total	<12		12	2.1	ug/Kg	☼		03/06/16 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/06/16 16:59*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/06/16 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*03/06/16 16:59*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/06/16 16:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1

Client Sample ID: R64-1(0-1)-030416
Date Collected: 03/04/16 11:36
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-14
Matrix: Solid
Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Acenaphthylene	**26**	**J**	37	4.9	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Anthracene	**30**	**J**	37	6.2	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Benzo[a]anthracene	**170**		37	5.0	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Benzo[a]pyrene	**240**	*****	37	7.1	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Benzo[b]fluoranthene	**450**	*****	37	8.0	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Benzo[g,h,i]perylene	**100**	*****	37	12	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Benzo[k]fluoranthene	**150**	*****	37	11	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Bis(2-ethylhexyl) phthalate	**98**	**J**	190	67	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Carbazole	<190		190	92	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Chrysene	**210**		37	10	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Dibenz(a,h)anthracene	**28**	**J ***	37	7.1	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Fluoranthene	**400**		37	6.8	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Fluorene	**9.5**	**J**	37	5.2	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1

Client Sample ID: R64-1(0-1)-030416
Date Collected: 03/04/16 11:36
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-14
Matrix: Solid
Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**110**	*	37	9.6	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Isophorone	<190		190	41	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Phenanthrene	**160**		37	5.1	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Phenol	<190		190	82	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1
Pyrene	**450**		37	7.3	ug/Kg	☼	03/10/16 15:39	03/13/16 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*35 - 137*	*03/10/16 15:39*	*03/13/16 17:34*	*1*
2-Fluorobiphenyl	*78*		*25 - 119*	*03/10/16 15:39*	*03/13/16 17:34*	*1*
2-Fluorophenol	*83*		*25 - 110*	*03/10/16 15:39*	*03/13/16 17:34*	*1*
Nitrobenzene-d5	*65*		*25 - 115*	*03/10/16 15:39*	*03/13/16 17:34*	*1*
Phenol-d5	*76*		*31 - 110*	*03/10/16 15:39*	*03/13/16 17:34*	*1*
Terphenyl-d14	*120*		*36 - 134*	*03/10/16 15:39*	*03/13/16 17:34*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 18:59	1
Barium	**0.31**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 18:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 18:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:59	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:59	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 18:59	1
Manganese	**0.29**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 18:59	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:59	1
Zinc	**0.21**	J B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 18:59	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.053**		0.050	0.010	mg/L		03/09/16 08:43	03/10/16 04:11	1
Barium	**0.56**		0.50	0.050	mg/L		03/09/16 08:43	03/10/16 04:11	1
Beryllium	**0.0042**		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 04:11	1
Cadmium	**0.0024**	J ^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 04:11	1
Chromium	**0.10**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:11	1
Cobalt	**0.024**	J	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:11	1
Copper	**0.076**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:11	1
Iron	**96**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 04:11	1
Lead	**0.31**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 04:11	1
Manganese	**1.8**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:11	1
Nickel	**0.067**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:11	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 04:11	1

Client Sample ID: R64-1(0-1)-030416
Date Collected: 03/04/16 11:36
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-14
Matrix: Solid
Percent Solids: 86.1

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 04:11	1
Zinc	**0.57**		0.50	0.020	mg/L		03/09/16 08:43	03/10/16 04:11	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Arsenic	**7.7**		0.50	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Barium	**62**		0.50	0.092	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Beryllium	**0.40**		0.20	0.043	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Cadmium	**0.25**		0.10	0.029	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Calcium	**11000**	**B**	10	3.2	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Chromium	**8.7**	**B**	0.50	0.086	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Cobalt	**5.4**		0.25	0.057	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Copper	**8.1**		0.50	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Iron	**9800**	**B**	10	3.9	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Lead	**36**		0.25	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Magnesium	**6600**	**B**	5.0	2.0	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Manganese	**360**		0.50	0.099	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Nickel	**7.9**		0.50	0.14	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Potassium	**580**		25	4.1	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Selenium	**0.27**	**J**	0.50	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Sodium	**1600**		50	6.6	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Vanadium	**14**		0.25	0.073	mg/Kg	☼	03/06/16 09:35	03/07/16 22:00	1
Zinc	**45**		10	3.2	mg/Kg	☼	03/06/16 09:35	03/08/16 15:36	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/11/16 12:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.0	ug/Kg	☼	03/07/16 19:00	03/11/16 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.55**		0.200	0.200	SU			03/07/16 15:27	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

1850 S. Water Street (ISGS Site No. 2946-65)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.283696072 (Decimal Degrees) Longitude: -88.130303431 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.283696072 Longitude: -88.130303431

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 R65-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-65. SEE FIGURE 3-2 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-108390-1.
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

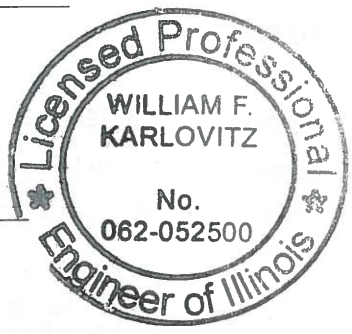
Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

P.E. or L.P.G. Seal:



Summary Table of ISGS Site No. 2946-65
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R65-1(0-1)-030416	R65-1(0-1)-030416D	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	R65-1	R65-1	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-65	2946-65	
Parameter			
Laboratory pH (s.u.)	8.56	8.61	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
2-Methylnaphthalene	8.6 J	7.9 J	---
Acenaphthene	ND	17 J	570000
Acenaphthylene	63 J	270 J	---
Anthracene	15 J	64	1.20E+07
Benzo(a)anthracene	66 J	300 J	900 / 1100 / 1800
Benzo(a)pyrene	130 J	620 J	90 / 1300 / 2100
Benzo(b)fluoranthene	190 J	930 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	180 J	640 J	---
Benzo(k)fluoranthene	69 J	290 J	9000
Chrysene	90 J	390 J	88000
Dibenzo(a,h)anthracene	ND	140 J	90 / 200 / 420
Fluoranthene	82 J	350 J	3100000
Fluorene	ND	15 J	560000
Indeno(1,2,3-cd)pyrene	140 J	570 J	900 / 900 / 1600
Naphthalene, SVOC	ND	7 J	1800
Phenanthrene	56 J	150 J	---
Pyrene	220 J	990 J	2300000
Total Metals (mg/kg)			
Antimony, Total	ND	0.34 J	5
Arsenic, Total	4	3.2	11.3 / 13
Barium, Total	48 J-	47 J-	1500
Beryllium, Total	0.31	0.28	22
Cadmium, Total	0.23	0.19	5.2
Calcium, Total	73000 J	94000 J	---
Chromium, Total	8.8 J-	7.2 J-	21
Cobalt, Total	4.2	3.8	20
Copper, Total	8.8	7.7	2900
Iron, Total	7200 J	6500 J	15000 / 15900
Lead, Total	29 J	29 J	107
Magnesium, Total	35000 J	56000 J	325000
Manganese, Total	300 J	320 J	630 / 636
Mercury, Total	0.025 J	ND	0.89
Nickel, Total	8.4	7.4	100
Potassium, Total	550 J+	530 J+	---
Selenium, Total	0.23 J	0.4 J	1.3
Sodium, Total	1400 J-	1200 J-	---
Vanadium, Total	11	8.9	550
Zinc, Total	51	45	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.32 J	0.36 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.7	1.8	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5

Summary Table of ISGS Site No. 2946-65
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R65-1(0-1)-030416	R65-1(0-1)-030416D	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	R65-1	R65-1	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-65	2946-65	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.043 J	0.039 J	0.05
Barium, SPLP	0.49 J	0.5	2
Beryllium, SPLP	ND	0.0041	0.004
Cadmium, SPLP	ND	0.002 J	0.005
Chromium, SPLP	0.098 J	0.1 J	0.1
Cobalt, SPLP	0.021 J	0.02 J	1
Copper, SPLP	0.063	0.064	0.65
Iron, SPLP	100 J	100 J	5
Lead, SPLP	0.13 J-	0.16 J-	0.0075
Manganese, SPLP	0.84	0.86	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.065 J	0.064 J	0.1
Selenium, SPLP	ND	ND	0.05
Zinc, SPLP	0.42 J	0.48 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: R65-1(0-1)-030416
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-11
Matrix: Solid
Percent Solids: 87.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/06/16 15:41	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/06/16 15:41	1
Bromodichloromethane	<5.7		5.7	0.96	ug/Kg	☼		03/06/16 15:41	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/06/16 15:41	1
Bromomethane	<5.7		5.7	2.1	ug/Kg	☼		03/06/16 15:41	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/06/16 15:41	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/06/16 15:41	1
Chlorobenzene	<5.7		5.7	1.3	ug/Kg	☼		03/06/16 15:41	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/06/16 15:41	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/06/16 15:41	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/06/16 15:41	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/06/16 15:41	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/06/16 15:41	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/06/16 15:41	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/06/16 15:41	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		03/06/16 15:41	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/06/16 15:41	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/06/16 15:41	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/06/16 15:41	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/06/16 15:41	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/06/16 15:41	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/06/16 15:41	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/06/16 15:41	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/06/16 15:41	1
Methyl tert-butyl ether	<5.7		5.7	1.3	ug/Kg	☼		03/06/16 15:41	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/06/16 15:41	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.90	ug/Kg	☼		03/06/16 15:41	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/06/16 15:41	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/06/16 15:41	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/06/16 15:41	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/06/16 15:41	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/06/16 15:41	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/06/16 15:41	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/06/16 15:41	1
Vinyl chloride	<5.7		5.7	1.4	ug/Kg	☼		03/06/16 15:41	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/06/16 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/06/16 15:41*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/06/16 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/06/16 15:41*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/06/16 15:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1

Client Sample ID: R65-1(0-1)-030416
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-11
Matrix: Solid
Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2-Methylnaphthalene	**8.6**	**J**	37	6.8	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Acenaphthylene	**63**		37	4.8	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Anthracene	**15**	**J**	37	6.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Benzo[a]anthracene	**66**	*****	37	4.9	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Benzo[a]pyrene	**130**	*****	37	7.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Benzo[b]fluoranthene	**190**	*****	37	7.9	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Benzo[g,h,i]perylene	**180**	*****	37	12	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Benzo[k]fluoranthene	**69**	*****	37	11	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Bis(2-ethylhexyl) phthalate	<180	*	180	67	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Butyl benzyl phthalate	<180	*	180	70	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Carbazole	<180		180	92	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Chrysene	**90**	*****	37	10	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Dibenz(a,h)anthracene	<37	*	37	7.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Fluoranthene	**82**		37	6.8	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1

Client Sample ID: R65-1(0-1)-030416
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-11
Matrix: Solid
Percent Solids: 87.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**140**	*	37	9.5	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Phenanthrene	**56**		37	5.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Phenol	<180		180	82	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1
Pyrene	**220**	*	37	7.3	ug/Kg	☼	03/07/16 16:21	03/11/16 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*45*		*35 - 137*	*03/07/16 16:21*	*03/11/16 03:03*	*1*
2-Fluorobiphenyl	*48*		*25 - 119*	*03/07/16 16:21*	*03/11/16 03:03*	*1*
2-Fluorophenol	*49*		*25 - 110*	*03/07/16 16:21*	*03/11/16 03:03*	*1*
Nitrobenzene-d5	*44*		*25 - 115*	*03/07/16 16:21*	*03/11/16 03:03*	*1*
Phenol-d5	*47*		*31 - 110*	*03/07/16 16:21*	*03/11/16 03:03*	*1*
Terphenyl-d14	*108*	*	*36 - 134*	*03/07/16 16:21*	*03/11/16 03:03*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 18:23	1
Barium	**0.32**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 18:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 18:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 18:23	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:23	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:23	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:23	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 18:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 18:23	1
Manganese	**1.7**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:23	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:23	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 18:23	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:23	1
Zinc	**0.19**	J B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 18:23	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.043**	J	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 03:51	1
Barium	**0.49**	J	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 03:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 03:51	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 03:51	1
Chromium	**0.098**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:51	1
Cobalt	**0.021**	J	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:51	1
Copper	**0.063**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:51	1
Iron	**100**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 03:51	1
Lead	**0.13**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 03:51	1
Manganese	**0.84**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:51	1
Nickel	**0.065**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:51	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 03:51	1

Client Sample ID: R65-1(0-1)-030416
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-11
Matrix: Solid
Percent Solids: 87.8

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:51	1
Zinc	**0.42**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 03:51	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.91		0.91	0.19	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Arsenic	**4.0**		0.46	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Barium	**48**		0.46	0.084	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Beryllium	**0.31**		0.18	0.040	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Cadmium	**0.23**		0.091	0.026	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Calcium	**73000**	**B**	91	29	mg/Kg	☼	03/06/16 09:35	03/08/16 15:16	10
Chromium	**8.8**	**B**	0.46	0.079	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Cobalt	**4.2**		0.23	0.052	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Copper	**8.8**		0.46	0.099	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Iron	**7200**	**B**	9.1	3.5	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Lead	**29**		0.23	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Magnesium	**35000**	**B**	4.6	1.9	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Manganese	**300**		0.46	0.090	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Nickel	**8.4**		0.46	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Potassium	**550**		23	3.7	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Selenium	**0.23**	**J**	0.46	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Sodium	**1400**		46	6.0	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Thallium	<0.46		0.46	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Vanadium	**11**		0.23	0.067	mg/Kg	☼	03/06/16 09:35	03/07/16 21:44	1
Zinc	**51**		9.1	2.9	mg/Kg	☼	03/06/16 09:35	03/08/16 15:16	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:21	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**25**		18	9.3	ug/Kg	☼	03/07/16 19:00	03/11/16 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.56**		0.200	0.200	SU			03/07/16 15:16	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Client Sample ID: R65-1(0-1)-030416D
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-12
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/06/16 16:07	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 16:07	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/06/16 16:07	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 16:07	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/06/16 16:07	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/06/16 16:07	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 16:07	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 16:07	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/06/16 16:07	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 16:07	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 16:07	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 16:07	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 16:07	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/06/16 16:07	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 16:07	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/06/16 16:07	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/06/16 16:07	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/06/16 16:07	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/06/16 16:07	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/06/16 16:07	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/06/16 16:07	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/06/16 16:07	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/06/16 16:07	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 16:07	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 16:07	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 16:07	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/06/16 16:07	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 16:07	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/06/16 16:07	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/06/16 16:07	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/06/16 16:07	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 16:07	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 16:07	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/06/16 16:07	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 16:07	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/06/16 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/06/16 16:07*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/06/16 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*03/06/16 16:07*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/06/16 16:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1

Client Sample ID: R65-1(0-1)-030416D
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-12
Matrix: Solid
Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2,4-Dichlorophenol	<360		360	86	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2,4-Dinitrophenol	<730		730	640	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2-Methylnaphthalene	**7.9**	**J**	36	6.7	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
3,3'-Dichlorobenzidine	<180	*	180	51	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
4,6-Dinitro-2-methylphenol	<730		730	290	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
4-Chloroaniline	<730		730	170	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
4-Nitrophenol	<730		730	350	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Acenaphthene	**17**	**J**	36	6.5	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Acenaphthylene	**270**		36	4.8	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Anthracene	**64**		36	6.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Benzo[a]anthracene	**300**	*	36	4.9	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Benzo[a]pyrene	**620**	*	36	7.0	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Benzo[b]fluoranthene	**930**	*	36	7.9	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Benzo[g,h,i]perylene	**640**	*	36	12	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Benzo[k]fluoranthene	**290**	*	36	11	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Bis(2-ethylhexyl) phthalate	<180	*	180	67	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Butyl benzyl phthalate	<180	*	180	69	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Carbazole	<180		180	91	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Chrysene	**390**	*	36	9.9	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Dibenz(a,h)anthracene	**140**	*	36	7.0	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Fluoranthene	**350**		36	6.8	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Fluorene	**15**	**J**	36	5.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Hexachlorobenzene	<73		73	8.4	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Hexachlorocyclopentadiene	<730		730	210	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1

Client Sample ID: R65-1(0-1)-030416D
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-12
Matrix: Solid
Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**570**	*	36	9.4	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Naphthalene	**7.0**	J	36	5.6	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
N-Nitrosodi-n-propylamine	<73		73	44	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Pentachlorophenol	<730		730	580	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Phenanthrene	**150**		36	5.1	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Phenol	<180		180	81	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1
Pyrene	**990**	*	36	7.2	ug/Kg	☼	03/07/16 16:21	03/11/16 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*59*		*35 - 137*	*03/07/16 16:21*	*03/11/16 03:29*	*1*
2-Fluorobiphenyl	*63*		*25 - 119*	*03/07/16 16:21*	*03/11/16 03:29*	*1*
2-Fluorophenol	*65*		*25 - 110*	*03/07/16 16:21*	*03/11/16 03:29*	*1*
Nitrobenzene-d5	*59*		*25 - 115*	*03/07/16 16:21*	*03/11/16 03:29*	*1*
Phenol-d5	*63*		*31 - 110*	*03/07/16 16:21*	*03/11/16 03:29*	*1*
Terphenyl-d14	*145*	*X *	*36 - 134*	*03/07/16 16:21*	*03/11/16 03:29*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 18:29	1
Barium	**0.36**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 18:29	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:29	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:29	1
Copper	**0.015**	J B	0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:29	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 18:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 18:29	1
Manganese	**1.8**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:29	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:29	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 18:29	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:29	1
Zinc	**0.23**	J B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 18:29	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.039**	J	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 03:58	1
Barium	**0.50**		0.50	0.050	mg/L		03/09/16 08:43	03/10/16 03:58	1
Beryllium	**0.0041**		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 03:58	1
Cadmium	**0.0020**	J ^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 03:58	1
Chromium	**0.10**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:58	1
Cobalt	**0.020**	J	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:58	1
Copper	**0.064**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:58	1
Iron	**100**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 03:58	1
Lead	**0.16**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 03:58	1
Manganese	**0.86**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:58	1
Nickel	**0.064**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:58	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 03:58	1

Client Sample ID: R65-1(0-1)-030416D
Date Collected: 03/04/16 11:03
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-12
Matrix: Solid
Percent Solids: 89.2

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:58	1
Zinc	**0.48**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 03:58	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.34**	**J**	0.91	0.19	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Arsenic	**3.2**		0.45	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Barium	**47**		0.45	0.083	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Beryllium	**0.28**		0.18	0.039	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Cadmium	**0.19**		0.091	0.026	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Calcium	**94000**	**B**	91	29	mg/Kg	☼	03/06/16 09:35	03/08/16 15:20	10
Chromium	**7.2**	**B**	0.45	0.078	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Cobalt	**3.8**		0.23	0.051	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Copper	**7.7**		0.45	0.098	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Iron	**6500**	**B**	9.1	3.5	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Lead	**29**		0.23	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Magnesium	**56000**	**B**	45	18	mg/Kg	☼	03/06/16 09:35	03/08/16 15:20	10
Manganese	**320**		0.45	0.090	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Nickel	**7.4**		0.45	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Potassium	**530**		23	3.7	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Selenium	**0.40**	**J**	0.45	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Sodium	**1200**		45	6.0	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Vanadium	**8.9**		0.23	0.066	mg/Kg	☼	03/06/16 09:35	03/07/16 21:50	1
Zinc	**45**		9.1	2.9	mg/Kg	☼	03/06/16 09:35	03/08/16 15:20	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:23	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<18		18	9.3	ug/Kg	☼	03/07/16 19:00	03/11/16 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.61**		0.200	0.200	SU			03/07/16 15:20	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

1800 block of S. Water Street (ISGS Site No. 2946-66)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.284612625 (Decimal Degrees) Longitude: -88.131122933 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.284612625 Longitude: -88.131122933

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 VL66-1 AND VL66-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-66. 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 IDs: 500-108390-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-66
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL66-1(0-1)-030416	VL66-2(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	VL66-1	VL66-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-66	2946-66	
Parameter			
Laboratory pH (s.u.)	7.98	8.43	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Acenaphthene	27 J	ND	570000
Acenaphthylene	140	36 J	---
Anthracene	110	8.5 J	1.20E+07
Benzo(a)anthracene	590 J	42 J	900 / 1100 / 1800
Benzo(a)pyrene	770 J	77 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1200 J	110 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	550 J	90 J	---
Benzo(k)fluoranthene	470 J	57 J	9000
Chrysene	700 J	59 J	88000
Dibenzo(a,h)anthracene	98 J	ND	90 / 200 / 420
Fluoranthene	1000	63	3100000
Fluorene	22 J	ND	560000
Indeno(1,2,3-cd)pyrene	510 J	66 J	900 / 900 / 1600
Naphthalene, SVOC	7.8 J	ND	1800
Phenanthrene	490	29 J	---
Pyrene	2200 J	160 J	2300000
Total Metals (mg/kg)			
Antimony, Total	0.26 J	0.29 J	5
Arsenic, Total	3	4.4	11.3 / 13
Barium, Total	30 J-	64 J-	1500
Beryllium, Total	0.25	0.34	22
Cadmium, Total	0.23	0.29	5.2
Calcium, Total	100000 J	45000 J	---
Chromium, Total	9.7 J-	12 J-	21
Cobalt, Total	3.3	4.8	20
Copper, Total	9.1	12	2900
Iron, Total	5900 J	8800 J	15000 / 15900
Lead, Total	64 J	66 J	107
Magnesium, Total	64000 J	21000 J	325000
Manganese, Total	230 J	440 J	630 / 636
Mercury, Total	0.011 J	0.02 J	0.89
Nickel, Total	7	9.2	100
Potassium, Total	480 J+	610 J+	---
Selenium, Total	0.45	0.41 J	1.3
Sodium, Total	920 J-	1200 J-	---
Vanadium, Total	10	13	550
Zinc, Total	46	62	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.29 J	0.26 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.43	0.59	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5

Summary Table of ISGS Site No. 2946-66
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	VL66-1(0-1)-030416	VL66-2(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	VL66-1	VL66-2	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-66	2946-66	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.039 J	0.042 J	0.05
Barium, SPLP	0.46 J	0.47 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	0.0023 J	ND	0.005
Chromium, SPLP	0.11 J	0.1 J	0.1
Cobalt, SPLP	0.019 J	0.021 J	1
Copper, SPLP	0.071	0.058	0.65
Iron, SPLP	100 J	100 J	5
Lead, SPLP	0.31 J-	0.16 J-	0.0075
Manganese, SPLP	0.8	1.1	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.068 J	0.063 J	0.1
Selenium, SPLP	ND	ND	0.05
Zinc, SPLP	0.6	0.46 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: VL66-1(0-1)-030416
Date Collected: 03/04/16 10:20
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-9
Matrix: Solid
Percent Solids: 84.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/06/16 14:48	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/06/16 14:48	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		03/06/16 14:48	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 14:48	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/06/16 14:48	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/06/16 14:48	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/06/16 14:48	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 14:48	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/06/16 14:48	1
Chloroform	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 14:48	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 14:48	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 14:48	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/06/16 14:48	1
Dibromochloromethane	<5.9		5.9	0.68	ug/Kg	☼		03/06/16 14:48	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 14:48	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		03/06/16 14:48	1
1,1-Dichloroethene	<5.9		5.9	2.2	ug/Kg	☼		03/06/16 14:48	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/06/16 14:48	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/06/16 14:48	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/06/16 14:48	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/06/16 14:48	1
Methylene Chloride	<5.9		5.9	4.5	ug/Kg	☼		03/06/16 14:48	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/06/16 14:48	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 14:48	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 14:48	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 14:48	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.94	ug/Kg	☼		03/06/16 14:48	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 14:48	1
Toluene	<5.9		5.9	2.1	ug/Kg	☼		03/06/16 14:48	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/06/16 14:48	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/06/16 14:48	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 14:48	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/06/16 14:48	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/06/16 14:48	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 14:48	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/06/16 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 122*		*03/06/16 14:48*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*03/06/16 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*03/06/16 14:48*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/06/16 14:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1

Client Sample ID: VL66-1(0-1)-030416
Date Collected: 03/04/16 10:20
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-9
Matrix: Solid
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	<370		370	85	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2,4-Dinitrophenol	<750		750	660	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
4-Chloroaniline	<750		750	180	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
4-Nitrophenol	<750		750	360	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Acenaphthene	**27**	**J**	37	6.7	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Acenaphthylene	**140**		37	4.9	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Anthracene	**110**		37	6.3	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Benzo[a]anthracene	**590**	*	37	5.0	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Benzo[a]pyrene	**770**	*	37	7.2	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Benzo[b]fluoranthene	**1200**	*	37	8.1	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Benzo[g,h,i]perylene	**550**	*	37	12	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Benzo[k]fluoranthene	**470**	*	37	11	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Bis(2-ethylhexyl) phthalate	<190	*	190	68	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Butyl benzyl phthalate	<190	*	190	71	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Carbazole	<190		190	94	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Chrysene	**700**	*	37	10	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Dibenz(a,h)anthracene	**98**	*	37	7.2	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Fluoranthene	**1000**		37	6.9	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Fluorene	**22**	**J**	37	5.3	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Hexachlorobenzene	<75		75	8.7	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Hexachlorocyclopentadiene	<750		750	220	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1

Client Sample ID: VL66-1(0-1)-030416
Date Collected: 03/04/16 10:20
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-9
Matrix: Solid
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	**510**	*	37	9.7	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Naphthalene	**7.8**	J	37	5.8	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
N-Nitrosodi-n-propylamine	<75		75	46	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Phenanthrene	**490**		37	5.2	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1
Pyrene	**2200**	*	37	7.4	ug/Kg	☼	03/07/16 16:21	03/11/16 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*35 - 137*	*03/07/16 16:21*	*03/11/16 02:11*	*1*
2-Fluorobiphenyl	*66*		*25 - 119*	*03/07/16 16:21*	*03/11/16 02:11*	*1*
2-Fluorophenol	*73*		*25 - 110*	*03/07/16 16:21*	*03/11/16 02:11*	*1*
Nitrobenzene-d5	*58*		*25 - 115*	*03/07/16 16:21*	*03/11/16 02:11*	*1*
Phenol-d5	*78*		*31 - 110*	*03/07/16 16:21*	*03/11/16 02:11*	*1*
Terphenyl-d14	*168*	*X *	*36 - 134*	*03/07/16 16:21*	*03/11/16 02:11*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 18:09	1
Barium	**0.29**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 18:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 18:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 18:09	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:09	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:09	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:09	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 18:09	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 18:09	1
Manganese	**0.43**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:09	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:09	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 18:09	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:09	1
Zinc	**0.18**	J B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 18:09	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.039**	J	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 03:37	1
Barium	**0.46**	J	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 03:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 03:37	1
Cadmium	**0.0023**	J ^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 03:37	1
Chromium	**0.11**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:37	1
Cobalt	**0.019**	J	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:37	1
Copper	**0.071**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:37	1
Iron	**100**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 03:37	1
Lead	**0.31**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 03:37	1
Manganese	**0.80**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:37	1
Nickel	**0.068**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:37	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 03:37	1

Client Sample ID: VL66-1(0-1)-030416

Date Collected: 03/04/16 10:20
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-9

Matrix: Solid
Percent Solids: 84.6

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:37	1
Zinc	**0.60**		0.50	0.020	mg/L		03/09/16 08:43	03/10/16 03:37	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.26**	**J**	0.91	0.19	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Arsenic	**3.0**		0.45	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Barium	**30**		0.45	0.083	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Beryllium	**0.25**		0.18	0.039	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Cadmium	**0.23**		0.091	0.026	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Calcium	**100000**	**B**	91	29	mg/Kg	☼	03/06/16 09:35	03/08/16 15:07	10
Chromium	**9.7**	**B**	0.45	0.078	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Cobalt	**3.3**		0.23	0.051	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Copper	**9.1**		0.45	0.098	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Iron	**5900**	**B**	9.1	3.5	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Lead	**64**		0.23	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Magnesium	**64000**	**B**	45	18	mg/Kg	☼	03/06/16 09:35	03/08/16 15:07	10
Manganese	**230**		0.45	0.090	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Nickel	**7.0**		0.45	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Potassium	**480**		23	3.7	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Selenium	**0.45**		0.45	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Silver	<0.23		0.23	0.053	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Sodium	**920**		45	6.0	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Vanadium	**10**		0.23	0.066	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1
Zinc	**46**		0.91	0.29	mg/Kg	☼	03/06/16 09:35	03/07/16 21:27	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:17	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**	**J**	18	9.7	ug/Kg	☼	03/07/16 19:00	03/11/16 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.98**		0.200	0.200	SU			03/07/16 15:09	1

Client Sample ID: VL66-2(0-1)-030416
Date Collected: 03/04/16 10:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-10
Matrix: Solid
Percent Solids: 83.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		24	4.6	ug/Kg	☼		03/06/16 15:15	1
Benzene	<6.0		6.0	1.3	ug/Kg	☼		03/06/16 15:15	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		03/06/16 15:15	1
Bromoform	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 15:15	1
Bromomethane	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 15:15	1
Carbon disulfide	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 15:15	1
Carbon tetrachloride	<6.0		6.0	1.3	ug/Kg	☼		03/06/16 15:15	1
Chlorobenzene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 15:15	1
Chloroethane	<6.0		6.0	2.5	ug/Kg	☼		03/06/16 15:15	1
Chloroform	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 15:15	1
Chloromethane	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 15:15	1
cis-1,2-Dichloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 15:15	1
cis-1,3-Dichloropropene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 15:15	1
Dibromochloromethane	<6.0		6.0	0.69	ug/Kg	☼		03/06/16 15:15	1
1,1-Dichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 15:15	1
1,2-Dichloroethane	<6.0		6.0	0.88	ug/Kg	☼		03/06/16 15:15	1
1,1-Dichloroethene	<6.0		6.0	2.2	ug/Kg	☼		03/06/16 15:15	1
1,2-Dichloropropane	<6.0		6.0	1.6	ug/Kg	☼		03/06/16 15:15	1
1,3-Dichloropropene, Total	<6.0		6.0	1.7	ug/Kg	☼		03/06/16 15:15	1
Ethylbenzene	<6.0		6.0	1.5	ug/Kg	☼		03/06/16 15:15	1
2-Hexanone	<6.0		6.0	1.9	ug/Kg	☼		03/06/16 15:15	1
Methylene Chloride	<6.0		6.0	4.5	ug/Kg	☼		03/06/16 15:15	1
Methyl Ethyl Ketone	<6.0		6.0	2.1	ug/Kg	☼		03/06/16 15:15	1
methyl isobutyl ketone	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 15:15	1
Methyl tert-butyl ether	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 15:15	1
Styrene	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 15:15	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	0.95	ug/Kg	☼		03/06/16 15:15	1
Tetrachloroethene	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 15:15	1
Toluene	<6.0		6.0	2.1	ug/Kg	☼		03/06/16 15:15	1
trans-1,2-Dichloroethene	<6.0		6.0	1.5	ug/Kg	☼		03/06/16 15:15	1
trans-1,3-Dichloropropene	<6.0		6.0	1.7	ug/Kg	☼		03/06/16 15:15	1
1,1,1-Trichloroethane	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 15:15	1
1,1,2-Trichloroethane	<6.0		6.0	1.2	ug/Kg	☼		03/06/16 15:15	1
Trichloroethene	<6.0		6.0	1.6	ug/Kg	☼		03/06/16 15:15	1
Vinyl chloride	<6.0		6.0	1.4	ug/Kg	☼		03/06/16 15:15	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/06/16 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/06/16 15:15*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*03/06/16 15:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*03/06/16 15:15*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/06/16 15:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1

Client Sample ID: VL66-2(0-1)-030416
Date Collected: 03/04/16 10:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-10
Matrix: Solid
Percent Solids: 83.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	88	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2,4-Dichlorophenol	<390		390	92	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2,4-Dinitrotoluene	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2-Methylnaphthalene	<39		39	7.1	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2-Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
4,6-Dinitro-2-methylphenol	<780		780	310	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Acenaphthylene	**36**	**J**	39	5.1	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Anthracene	**8.5**	**J**	39	6.5	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Benzo[a]anthracene	**42**	**	39	5.2	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Benzo[a]pyrene	**77**	**	39	7.5	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Benzo[b]fluoranthene	**110**	**	39	8.4	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Benzo[g,h,i]perylene	**90**	**	39	12	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Benzo[k]fluoranthene	**57**	**	39	11	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Bis(2-chloroethoxy)methane	<190		190	40	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Bis(2-ethylhexyl) phthalate	<190	*	190	71	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Butyl benzyl phthalate	<190	*	190	74	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Carbazole	<190		190	97	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Chrysene	**59**	**	39	11	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Dibenz(a,h)anthracene	<39	*	39	7.5	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Dibenzofuran	<190		190	45	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Fluoranthene	**63**		39	7.2	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Fluorene	<39		39	5.5	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Hexachloroethane	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1

Client Sample ID: VL66-2(0-1)-030416
Date Collected: 03/04/16 10:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-10
Matrix: Solid
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	**66**	*	39	10	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Isophorone	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Naphthalene	<39		39	6.0	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
N-Nitrosodi-n-propylamine	<78		78	47	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Phenanthrene	**29**	J	39	5.4	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Phenol	<190		190	86	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1
Pyrene	**160**	*	39	7.7	ug/Kg	☼	03/07/16 16:21	03/11/16 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*35 - 137*	*03/07/16 16:21*	*03/11/16 02:37*	*1*
2-Fluorobiphenyl	*64*		*25 - 119*	*03/07/16 16:21*	*03/11/16 02:37*	*1*
2-Fluorophenol	*67*		*25 - 110*	*03/07/16 16:21*	*03/11/16 02:37*	*1*
Nitrobenzene-d5	*59*		*25 - 115*	*03/07/16 16:21*	*03/11/16 02:37*	*1*
Phenol-d5	*65*		*31 - 110*	*03/07/16 16:21*	*03/11/16 02:37*	*1*
Terphenyl-d14	*152*	*X *	*36 - 134*	*03/07/16 16:21*	*03/11/16 02:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 18:16	1
Barium	**0.26**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 18:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 18:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 18:16	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:16	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:16	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:16	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 18:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 18:16	1
Manganese	**0.59**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:16	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:16	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 18:16	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:16	1
Zinc	**0.12**	J B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 18:16	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		03/09/16 08:43	03/10/16 03:44	1
Barium	**0.47**	J	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 03:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 03:44	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 03:44	1
Chromium	**0.10**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:44	1
Cobalt	**0.021**	J	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:44	1
Copper	**0.058**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:44	1
Iron	**100**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 03:44	1
Lead	**0.16**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 03:44	1
Manganese	**1.1**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:44	1
Nickel	**0.063**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 03:44	1

Client Sample ID: VL66-2(0-1)-030416
Date Collected: 03/04/16 10:35
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-10
Matrix: Solid
Percent Solids: 83.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:44	1
Zinc	**0.46**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 03:44	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.29**	**J**	1.1	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Arsenic	**4.4**		0.56	0.26	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Barium	**64**		0.56	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Beryllium	**0.34**		0.22	0.048	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Cadmium	**0.29**		0.11	0.032	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Calcium	**45000**	**B**	110	36	mg/Kg	☼	03/06/16 09:35	03/08/16 15:12	10
Chromium	**12**	**B**	0.56	0.096	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Cobalt	**4.8**		0.28	0.063	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Copper	**12**		0.56	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Iron	**8800**	**B**	11	4.3	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Lead	**66**		0.28	0.14	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Magnesium	**21000**	**B**	5.6	2.3	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Manganese	**440**		0.56	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Nickel	**9.2**		0.56	0.15	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Potassium	**610**		28	4.6	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Selenium	**0.41**	**J**	0.56	0.28	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Silver	<0.28		0.28	0.065	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Sodium	**1200**		56	7.4	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Thallium	<0.56		0.56	0.27	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Vanadium	**13**		0.28	0.081	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1
Zinc	**62**		1.1	0.35	mg/Kg	☼	03/06/16 09:35	03/07/16 21:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:19	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**20**		18	9.7	ug/Kg	☼	03/07/16 19:00	03/11/16 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.43**		0.200	0.200	SU			03/07/16 15:13	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

1815 to 1839 S. Water Street (ISGS Site No. 2946-67)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.285773397 (Decimal Degrees) Longitude: -88.132121855 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.285773397 Longitude: -88.132121855

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 R67-1 AND R67-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-67. 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 IDs: 500-108663-1.
ALSO SEE FIGURES 4-1 AND 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-67
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R67-1(0-1)-031016	R67-3(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	3/10/2016	
Location ID	R67-1	R67-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-67	2946-67	
Parameter			
Laboratory pH (s.u.)	8.23	7.71	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Acenaphthene	16 J	ND	570000
Acenaphthylene	36	9.1 J	---
Anthracene	66	26 J	1.20E+07
Benzo(a)anthracene	420 J	170	900 / 1100 / 1800
Benzo(a)pyrene	610 J	190	90 / 1300 / 2100
Benzo(b)fluoranthene	1200 J	350	900 / 1500 / 2100
Benzo(g,h,i)perylene	430 J	88	---
Benzo(k)fluoranthene	380 J	130	9000
bis(2-Ethylhexyl)phthalate	140 J	180 J	46000
Chrysene	550 J	200	88000
Dibenzo(a,h)anthracene	100 J	21 J	90 / 200 / 420
Fluoranthene	790	430	3100000
Fluorene	20 J	6.7 J	560000
Indeno(1,2,3-cd)pyrene	480 J	100	900 / 900 / 1600
Phenanthrene	350	160	---
Pyrene	1500 J	340	2300000
Total Metals (mg/kg)			
Antimony, Total	0.33 J	ND	5
Arsenic, Total	2 J	4.2 J	11.3 / 13
Barium, Total	27 J	59 J	1500
Beryllium, Total	0.21	0.4	22
Cadmium, Total	0.28 J-	0.21 J-	5.2
Calcium, Total	150000 J	19000 J	---
Chromium, Total	8.8	54	21
Cobalt, Total	2.7 J	3.9 J	20
Copper, Total	12	12	2900
Iron, Total	5400 J	8800 J	15000 / 15900
Lead, Total	34 J	270 J	107
Magnesium, Total	92000 J	12000 J	325000
Manganese, Total	210 J	250 J	630 / 636
Mercury, Total	0.019	0.015 J	0.89
Nickel, Total	5.8	9.9	100
Potassium, Total	600 J+	820 J+	---
Selenium, Total	ND	0.47 J	1.3
Sodium, Total	1000 J-	1100 J-	---
Vanadium, Total	7 J	15 J	550
Zinc, Total	78 J-	56 J-	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.4 J	0.29 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	0.016 J	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.2 J+	0.81 J+	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	0.3 J	0.062 J	5

Summary Table of ISGS Site No. 2946-67
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R67-1(0-1)-031016	R67-3(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	3/10/2016	
Location ID	R67-1	R67-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-67	2946-67	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.23 J	0.19 J	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.056	0.049	0.1
Cobalt, SPLP	ND	ND	1
Copper, SPLP	0.037	0.032	0.65
Iron, SPLP	33 J+	34 J+	5
Lead, SPLP	0.073	0.093	0.0075
Manganese, SPLP	0.25	0.33	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.029	0.025	0.1
Selenium, SPLP	ND	ND	0.05
Zinc, SPLP	0.28 J	0.27 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108663-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 10:10:31 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: R67-3(0-1)-031016
Date Collected: 03/10/16 13:00
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-5
Matrix: Solid
Percent Solids: 87.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/14/16 15:23	1
Benzene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 15:23	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		03/14/16 15:23	1
Bromoform	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 15:23	1
Bromomethane	<5.7	*	5.7	2.1	ug/Kg	☼		03/14/16 15:23	1
Carbon disulfide	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 15:23	1
Carbon tetrachloride	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 15:23	1
Chlorobenzene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 15:23	1
Chloroethane	<5.7		5.7	2.4	ug/Kg	☼		03/14/16 15:23	1
Chloroform	<5.7		5.7	1.1	ug/Kg	☼		03/14/16 15:23	1
Chloromethane	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 15:23	1
cis-1,2-Dichloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 15:23	1
cis-1,3-Dichloropropene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 15:23	1
Dibromochloromethane	<5.7		5.7	0.66	ug/Kg	☼		03/14/16 15:23	1
1,1-Dichloroethane	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 15:23	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		03/14/16 15:23	1
1,1-Dichloroethene	<5.7		5.7	2.1	ug/Kg	☼		03/14/16 15:23	1
1,2-Dichloropropane	<5.7		5.7	1.5	ug/Kg	☼		03/14/16 15:23	1
1,3-Dichloropropene, Total	<5.7		5.7	1.6	ug/Kg	☼		03/14/16 15:23	1
Ethylbenzene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 15:23	1
2-Hexanone	<5.7		5.7	1.8	ug/Kg	☼		03/14/16 15:23	1
Methylene Chloride	<5.7		5.7	4.3	ug/Kg	☼		03/14/16 15:23	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		03/14/16 15:23	1
methyl isobutyl ketone	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 15:23	1
Methyl tert-butyl ether	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 15:23	1
Styrene	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 15:23	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	0.91	ug/Kg	☼		03/14/16 15:23	1
Tetrachloroethene	<5.7		5.7	1.2	ug/Kg	☼		03/14/16 15:23	1
Toluene	<5.7		5.7	2.0	ug/Kg	☼		03/14/16 15:23	1
trans-1,2-Dichloroethene	<5.7		5.7	1.4	ug/Kg	☼		03/14/16 15:23	1
trans-1,3-Dichloropropene	<5.7		5.7	1.6	ug/Kg	☼		03/14/16 15:23	1
1,1,1-Trichloroethane	<5.7		5.7	1.3	ug/Kg	☼		03/14/16 15:23	1
1,1,2-Trichloroethane	<5.7		5.7	1.1	ug/Kg	☼		03/14/16 15:23	1
Trichloroethene	<5.7		5.7	1.5	ug/Kg	☼		03/14/16 15:23	1
Vinyl chloride	<5.7	*	5.7	1.4	ug/Kg	☼		03/14/16 15:23	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/14/16 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/14/16 15:23*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/14/16 15:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*03/14/16 15:23*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/14/16 15:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1

Client Sample ID: R67-3(0-1)-031016
Date Collected: 03/10/16 13:00
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-5
Matrix: Solid
Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Acenaphthene	<37		37	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Acenaphthylene	**9.1**	**J**	37	4.9	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Anthracene	**26**	**J**	37	6.2	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Benzo[a]anthracene	**170**		37	5.0	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Benzo[a]pyrene	**190**		37	7.2	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Benzo[b]fluoranthene	**350**		37	8.0	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Benzo[g,h,i]perylene	**88**		37	12	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Benzo[k]fluoranthene	**130**		37	11	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Bis(2-ethylhexyl) phthalate	**180**	**J**	190	68	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Butyl benzyl phthalate	<190		190	70	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Carbazole	<190		190	92	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Chrysene	**200**		37	10	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Dibenz(a,h)anthracene	**21**	**J**	37	7.1	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Fluoranthene	**430**		37	6.9	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Fluorene	**6.7**	**J**	37	5.2	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108663-1

Client Sample ID: R67-3(0-1)-031016
Date Collected: 03/10/16 13:00
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-5
Matrix: Solid
Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**100**		37	9.6	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Isophorone	<190		190	42	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Phenanthrene	**160**		37	5.2	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Phenol	<190		190	82	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1
Pyrene	**340**		37	7.4	ug/Kg	☼	03/15/16 07:01	03/22/16 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*35 - 137*	*03/15/16 07:01*	*03/22/16 01:10*	*1*
2-Fluorobiphenyl	*77*		*25 - 119*	*03/15/16 07:01*	*03/22/16 01:10*	*1*
2-Fluorophenol	*82*		*25 - 110*	*03/15/16 07:01*	*03/22/16 01:10*	*1*
Nitrobenzene-d5	*69*		*25 - 115*	*03/15/16 07:01*	*03/22/16 01:10*	*1*
Phenol-d5	*84*		*31 - 110*	*03/15/16 07:01*	*03/22/16 01:10*	*1*
Terphenyl-d14	*94*		*36 - 134*	*03/15/16 07:01*	*03/22/16 01:10*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 11:35	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 11:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 11:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 11:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:35	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:35	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 11:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 11:35	1
Manganese	**0.81**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 11:35	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:35	1
Zinc	**0.062**	**J**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 11:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/21/16 21:27	1
Barium	**0.19**	**J**	0.50	0.050	mg/L		03/21/16 09:00	03/21/16 21:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/21/16 21:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/21/16 21:27	1
Chromium	**0.049**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:27	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:27	1
Copper	**0.032**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:27	1
Iron	**34**		0.40	0.20	mg/L		03/21/16 09:00	03/21/16 21:27	1
Lead	**0.093**		0.0075	0.0075	mg/L		03/21/16 09:00	03/21/16 21:27	1
Manganese	**0.33**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:27	1
Nickel	**0.025**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:27	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/21/16 21:27	1

Client Sample ID: R67-3(0-1)-031016
Date Collected: 03/10/16 13:00
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-5
Matrix: Solid
Percent Solids: 87.3

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:27	1
Zinc	**0.27**	**J B**	0.50	0.020	mg/L		03/21/16 09:00	03/21/16 21:27	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.96		0.96	0.20	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Arsenic	**4.2**		0.48	0.22	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Barium	**59**		0.48	0.088	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Beryllium	**0.40**		0.19	0.041	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Cadmium	**0.21**		0.096	0.028	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Calcium	**19000**	**B**	9.6	3.1	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Chromium	**54**		0.48	0.082	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Cobalt	**3.9**		0.24	0.054	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Copper	**12**		0.48	0.10	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Iron	**8800**		9.6	3.7	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Lead	**270**		0.24	0.12	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Magnesium	**12000**	**B**	4.8	1.9	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Manganese	**250**		0.48	0.095	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Nickel	**9.9**		0.48	0.13	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Potassium	**820**		24	3.9	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Selenium	**0.47**	**J**	0.48	0.24	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Silver	<0.24		0.24	0.056	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Sodium	**1100**		48	6.3	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Vanadium	**15**		0.24	0.070	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1
Zinc	**56**		0.96	0.30	mg/Kg	☼	03/16/16 11:15	03/19/16 04:24	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:27	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 21:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	17	8.7	ug/Kg	☼	03/18/16 15:00	03/19/16 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.71**		0.200	0.200	SU			03/14/16 15:30	1

Client Sample ID: R67-1(0-1)-031016
Date Collected: 03/10/16 13:23
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-7
Matrix: Solid
Percent Solids: 91.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/14/16 16:13	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 16:13	1
Bromodichloromethane	<5.5		5.5	0.92	ug/Kg	☼		03/14/16 16:13	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 16:13	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/14/16 16:13	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 16:13	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 16:13	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 16:13	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/14/16 16:13	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 16:13	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 16:13	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 16:13	1
cis-1,3-Dichloropropene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 16:13	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/14/16 16:13	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 16:13	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/14/16 16:13	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 16:13	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 16:13	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 16:13	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 16:13	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/14/16 16:13	1
Methylene Chloride	<5.5		5.5	4.1	ug/Kg	☼		03/14/16 16:13	1
Methyl Ethyl Ketone	<5.5		5.5	1.9	ug/Kg	☼		03/14/16 16:13	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 16:13	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 16:13	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 16:13	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/14/16 16:13	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 16:13	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/14/16 16:13	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 16:13	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 16:13	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 16:13	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 16:13	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 16:13	1
Vinyl chloride	<5.5	*	5.5	1.3	ug/Kg	☼		03/14/16 16:13	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*03/14/16 16:13*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*03/14/16 16:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/14/16 16:13*	*1*
Toluene-d8 (Surr)	*112*		*75 - 122*		*03/14/16 16:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1

Client Sample ID: R67-1(0-1)-031016
Date Collected: 03/10/16 13:23
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-7
Matrix: Solid
Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	81	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2,4-Dichlorophenol	<350		350	85	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2,4-Dimethylphenol	<350		350	140	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2,6-Dinitrotoluene	<180		180	70	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2-Methylnaphthalene	<35		35	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
2-Nitrophenol	<350		350	84	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Acenaphthene	**16**	**J**	35	6.4	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Acenaphthylene	**36**		35	4.7	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Anthracene	**66**		35	6.0	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Benzo[a]anthracene	**420**	*****	35	4.8	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Benzo[a]pyrene	**610**	*****	35	6.9	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Benzo[b]fluoranthene	**1200**	*****	35	7.7	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Benzo[g,h,i]perylene	**430**	*****	35	11	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Benzo[k]fluoranthene	**380**	*****	35	11	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Bis(2-ethylhexyl) phthalate	**140**	**J ***	180	65	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Butyl benzyl phthalate	<180	*	180	68	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Carbazole	<180		180	89	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Chrysene	**550**	*****	35	9.7	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Dibenz(a,h)anthracene	**100**	*****	35	6.9	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Fluoranthene	**790**		35	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Fluorene	**20**	**J**	35	5.0	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1

Client Sample ID: R67-1(0-1)-031016
Date Collected: 03/10/16 13:23
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-7
Matrix: Solid
Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**480**	*	35	9.3	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Isophorone	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Naphthalene	<35		35	5.5	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Nitrobenzene	<35		35	8.9	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Pentachlorophenol	<720		720	570	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Phenanthrene	**350**		35	5.0	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Phenol	<180		180	79	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1
Pyrene	**1500**	*	35	7.1	ug/Kg	☼	03/15/16 07:01	03/22/16 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*35 - 137*	*03/15/16 07:01*	*03/22/16 04:59*	*1*
2-Fluorobiphenyl	*70*		*25 - 119*	*03/15/16 07:01*	*03/22/16 04:59*	*1*
2-Fluorophenol	*73*		*25 - 110*	*03/15/16 07:01*	*03/22/16 04:59*	*1*
Nitrobenzene-d5	*60*		*25 - 115*	*03/15/16 07:01*	*03/22/16 04:59*	*1*
Phenol-d5	*76*		*31 - 110*	*03/15/16 07:01*	*03/22/16 04:59*	*1*
Terphenyl-d14	*169*	*X	*36 - 134*	*03/15/16 07:01*	*03/22/16 04:59*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 11:54	1
Barium	**0.40**	**J**	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 11:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 11:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 11:54	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:54	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:54	1
Copper	**0.016**	**J**	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:54	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 11:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 11:54	1
Manganese	**1.2**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:54	1
Nickel	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:54	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 11:54	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 11:54	1
Zinc	**0.30**	**J**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 11:54	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/21/16 21:36	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		03/21/16 09:00	03/21/16 21:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/21/16 21:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/21/16 21:36	1
Chromium	**0.056**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:36	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:36	1
Copper	**0.037**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:36	1
Iron	**33**		0.40	0.20	mg/L		03/21/16 09:00	03/21/16 21:36	1
Lead	**0.073**		0.0075	0.0075	mg/L		03/21/16 09:00	03/21/16 21:36	1
Manganese	**0.25**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:36	1
Nickel	**0.029**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:36	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/21/16 21:36	1

Client Sample ID: R67-1(0-1)-031016
Date Collected: 03/10/16 13:23
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-7
Matrix: Solid
Percent Solids: 91.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:36	1
Zinc	**0.28**	**J B**	0.50	0.020	mg/L		03/21/16 09:00	03/21/16 21:36	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.33**	**J**	0.89	0.19	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Arsenic	**2.0**		0.45	0.21	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Barium	**27**		0.45	0.082	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Beryllium	**0.21**		0.18	0.039	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Cadmium	**0.28**		0.089	0.026	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Calcium	**150000**	**B**	89	29	mg/Kg	☼	03/16/16 11:15	03/20/16 04:14	10
Chromium	**8.8**		0.45	0.077	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Cobalt	**2.7**		0.22	0.050	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Copper	**12**		0.45	0.097	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Iron	**5400**		8.9	3.4	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Lead	**34**		0.22	0.11	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Magnesium	**92000**	**B**	45	18	mg/Kg	☼	03/16/16 11:15	03/20/16 04:14	10
Manganese	**210**		0.45	0.088	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Nickel	**5.8**		0.45	0.12	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Potassium	**600**		22	3.6	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Selenium	<0.45		0.45	0.22	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Silver	<0.22		0.22	0.052	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Sodium	**1000**		45	5.9	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Thallium	<0.45		0.45	0.22	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Vanadium	**7.0**		0.22	0.065	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1
Zinc	**78**		0.89	0.28	mg/Kg	☼	03/16/16 11:15	03/19/16 04:34	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:31	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 21:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**19**		16	8.3	ug/Kg	☼	03/18/16 15:00	03/19/16 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.23**		0.200	0.200	SU			03/14/16 15:39	1

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108663-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-108663 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 3.0

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039-1C Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Mercury	TCLP SPLP Metals	pH					
1		FPD-3(0-1)-031016	031016	1205	2	S		X	X	X	X	X					
2		FPD-3(0-1)-031016 D		1205				X	X	X	X	X					
3		FPD-2(0-1)-031016		1210				X	X	X	X	X					
4		FPD-1(0-1)-031016		1224				X	X	X	X	X					
5		R67-3(0-1)-031016		1300				X	X	X	X	X					
6		R67-2(0-1)-031016		1311				X	X	X	X	X					
7		R67-1(0-1)-031016		1323				X	X	X	X	X					
8		SH-2(0-1)-031016		1339				X	X	X	X	X					
9		SH-1(0-1)-031016		1355				X	X	X	X	X					
10		R72-2(0-1)-031016		1406				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Redacted Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[redacted]	WESTON	031016	1610	[redacted]	TA	3/10/16	1600
[redacted]	TA	3/10/16	1655	[redacted]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

Client: WESTON
Client Project #:
Project Name: IDOT 039-1L Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		RT2-1(0-1)-031016	031016	1415	2	S		X	X	X	X	X					
12		IB-1(0-1)-031016	031016	1435	2	S		X	X	X	X	X					
13		IB-2(0-1)-031016		1445	2	S		X	X	X	X	X					
14		IB-3(0-1)-031016		1455	2	S		X	X	X	X	X					
15		IB-4(0-1)-031016		1510	2	S		X	X	X	X	X					
16		IB-5(0-1)-031016		1517	2	S		X	X	X	X	X					
17		AL3-5(0-1)-031016		1540	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rel Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	03/10/16	1615	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

1800 S. Water Street (ISGS Site No. 2946-68)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.285283451 (Decimal Degrees) Longitude: -88.131798368 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.285283451 Longitude: -88.131798368

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 CFC-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-68. 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 IDs: 500-108390-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional ~~Geologist~~ Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-68
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	CFC-2(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	
Location ID	CFC-2	
Depth	0 - 1	
ISGS Site No.	2946-68	
Parameter		
Laboratory pH (s.u.)	8.42	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthene	21 J	570000
Acenaphthylene	150	---
Anthracene	110	1.20E+07
Benzo(a)anthracene	860 J	900 / 1100 / 1800
Benzo(a)pyrene	1000 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1700 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	700 J	---
Benzo(k)fluoranthene	610 J	9000
Chrysene	970 J	88000
Dibenzo(a,h)anthracene	160 J	90 / 200 / 420
Fluoranthene	1600	3100000
Fluorene	35 J	560000
Indeno(1,2,3-cd)pyrene	570 J	900 / 900 / 1600
Phenanthrene	700	---
Pyrene	3600 J	2300000
Total Metals (mg/kg)		
Antimony, Total	0.21 J	5
Arsenic, Total	2.6	11.3 / 13
Barium, Total	35 J-	1500
Beryllium, Total	0.22	22
Cadmium, Total	0.15	5.2
Calcium, Total	27000 J	---
Chromium, Total	9.4 J-	21
Cobalt, Total	3.2	20
Copper, Total	7.5	2900
Iron, Total	6400 J	15000 / 15900
Lead, Total	52 J	107
Magnesium, Total	17000 J	325000
Manganese, Total	240 J	630 / 636
Nickel, Total	6.6	100
Potassium, Total	490 J+	---
Sodium, Total	380 J-	---
Vanadium, Total	9.4	550
Zinc, Total	35	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.33 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.1	0.15
Nickel, TCLP	ND	0.1
Zinc, TCLP	ND	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.021 J	0.05
Barium, SPLP	0.27 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.059 J	0.1
Cobalt, SPLP	0.014 J	1
Copper, SPLP	0.045	0.65
Iron, SPLP	55 J	5
Lead, SPLP	0.12 J-	0.0075
Manganese, SPLP	0.99	0.15
Nickel, SPLP	0.045 J	0.1
Zinc, SPLP	0.25 J	5

Summary Table of ISGS Site No. 2946-68
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: CFC-2(0-1)-030416
Date Collected: 03/04/16 10:09
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-8
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/07/16 09:31	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 09:31	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/07/16 09:31	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 09:31	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 09:31	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/07/16 09:31	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 09:31	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 09:31	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/07/16 09:31	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 09:31	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 09:31	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 09:31	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 09:31	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/07/16 09:31	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 09:31	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/07/16 09:31	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 09:31	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 09:31	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 09:31	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 09:31	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/07/16 09:31	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/07/16 09:31	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 09:31	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 09:31	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 09:31	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 09:31	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/07/16 09:31	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/07/16 09:31	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/07/16 09:31	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/07/16 09:31	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/07/16 09:31	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 09:31	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/07/16 09:31	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/07/16 09:31	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/07/16 09:31	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/07/16 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/07/16 09:31*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/07/16 09:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*03/07/16 09:31*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/07/16 09:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
1,3-Dichlorobenzene	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
1,4-Dichlorobenzene	<190		190	47	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1

Client Sample ID: CFC-2(0-1)-030416
Date Collected: 03/04/16 10:09
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-8
Matrix: Solid
Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2,6-Dinitrotoluene	<190		190	72	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2-Methylphenol	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
3 & 4 Methylphenol	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
3,3'-Dichlorobenzidine	<190	*	190	52	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Acenaphthene	**21**	**J**	37	6.6	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Acenaphthylene	**150**		37	4.9	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Anthracene	**110**		37	6.2	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Benzo[a]anthracene	**860**	*	37	5.0	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Benzo[a]pyrene	**1000**	*	37	7.1	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Benzo[b]fluoranthene	**1700**	*	37	8.0	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Benzo[g,h,i]perylene	**700**	*	37	12	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Benzo[k]fluoranthene	**610**	*	37	11	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Bis(2-ethylhexyl) phthalate	<190	*	190	67	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Butyl benzyl phthalate	<190	*	190	70	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Carbazole	<190		190	92	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Chrysene	**970**	*	37	10	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Dibenz(a,h)anthracene	**160**	*	37	7.1	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Dibenzofuran	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Fluoranthene	**1600**		37	6.8	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Fluorene	**35**	**J**	37	5.2	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Hexachloroethane	<190		190	56	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1

Client Sample ID: CFC-2(0-1)-030416
Date Collected: 03/04/16 10:09
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-8
Matrix: Solid
Percent Solids: 89.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**570**	*	37	9.5	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Isophorone	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
N-Nitrosodiphenylamine	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Phenanthrene	**700**		37	5.1	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1
Phenol	<190		190	82	ug/Kg	☼	03/07/16 16:21	03/09/16 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*35 - 137*	*03/07/16 16:21*	*03/09/16 20:49*	*1*
2-Fluorobiphenyl	*96*		*25 - 119*	*03/07/16 16:21*	*03/09/16 20:49*	*1*
2-Fluorophenol	*91*		*25 - 110*	*03/07/16 16:21*	*03/09/16 20:49*	*1*
Nitrobenzene-d5	*95*		*25 - 115*	*03/07/16 16:21*	*03/09/16 20:49*	*1*
Phenol-d5	*92*		*31 - 110*	*03/07/16 16:21*	*03/09/16 20:49*	*1*
Terphenyl-d14	*221*	*X *	*36 - 134*	*03/07/16 16:21*	*03/09/16 20:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**3600**	*	180	37	ug/Kg	☼	03/07/16 16:21	03/11/16 16:15	5

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 18:02	1
Barium	**0.33**	J	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 18:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 18:02	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:02	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:02	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:02	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 18:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 18:02	1
Manganese	**1.1**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:02	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 18:02	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 18:02	1
Zinc	**0.097**	J B	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 18:02	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**	J	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 03:31	1
Barium	**0.27**	J	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 03:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 03:31	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 03:31	1
Chromium	**0.059**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:31	1
Cobalt	**0.014**	J	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:31	1
Copper	**0.045**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:31	1
Iron	**55**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 03:31	1
Lead	**0.12**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 03:31	1

Client Sample ID: CFC-2(0-1)-030416
Date Collected: 03/04/16 10:09
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-8
Matrix: Solid
Percent Solids: 89.2

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.99		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:31	1
Nickel	0.045		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:31	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 03:31	1
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:31	1
Zinc	0.25	J	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 03:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.21	J	0.98	0.20	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Arsenic	2.6		0.49	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Barium	35		0.49	0.090	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Beryllium	0.22		0.20	0.043	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Cadmium	0.15		0.098	0.028	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Calcium	27000	B	9.8	3.2	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Chromium	9.4	B	0.49	0.085	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Cobalt	3.2		0.25	0.056	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Copper	7.5		0.49	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Iron	6400	B	9.8	3.8	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Lead	52		0.25	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Magnesium	17000	B	4.9	2.0	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Manganese	240		0.49	0.097	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Nickel	6.6		0.49	0.13	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Potassium	490		25	4.0	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Selenium	<0.49		0.49	0.24	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Silver	<0.25		0.25	0.058	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Sodium	380		49	6.5	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Thallium	<0.49		0.49	0.24	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Vanadium	9.4		0.25	0.072	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1
Zinc	35		0.98	0.31	mg/Kg	☼	03/06/16 09:35	03/07/16 21:22	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:15	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.1	ug/Kg	☼	03/07/16 19:00	03/11/16 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.42		0.200	0.200	SU			03/07/16 15:02	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 From St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

1763 S. Water Street (ISGS Site No. 2946-69)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.287217475 (Decimal Degrees) Longitude: -88.133260876 (-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	Illinois Department of Transportation	Name:	Illinois Department of Transportation
Street Address:	201 West Center Court	Street Address:	201 West Center Court
PO Box:		PO Box:	
City:	Schaumburg State: IL	City:	Schaumburg State: IL
Zip Code:	60196-1096 Phone: 847-705-4101	Zip Code:	60196-1096 Phone: 847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 From St to Kankakee Cty Line

Latitude: 41.287217475 Longitude: -88.133260876

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 SH-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-69. 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 IDs: 500-108663-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-69
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	SH-1(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	SH-1	
Depth	0 - 1	
ISGS Site No.	2946-69	
Parameter		
Laboratory pH (s.u.)	8.91	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
2-Methylnaphthalene	10 J	---
Acenaphthene	16 J	570000
Acenaphthylene	74	---
Anthracene	74	1.20E+07
Benzo(a)anthracene	390 J	900 / 1100 / 1800
Benzo(a)pyrene	510 J	90 / 1300 / 2100
Benzo(b)fluoranthene	830 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	320 J	---
Benzo(k)fluoranthene	99 J	9000
bis(2-Ethylhexyl)phthalate	200 J	46000
Butyl benzyl phthalate	120 J	930000
Chrysene	480 J	88000
Dibenzo(a,h)anthracene	71 J	90 / 200 / 420
Fluoranthene	660	3100000
Fluorene	19 J	560000
Indeno(1,2,3-cd)pyrene	310 J	900 / 900 / 1600
Naphthalene, SVOC	8.6 J	1800
Phenanthrene	340	---
Pyrene	1400 J	2300000
Total Metals (mg/kg)		
Antimony, Total	0.19 J	5
Arsenic, Total	2.2 J	11.3 / 13
Barium, Total	42 J	1500
Beryllium, Total	0.26	22
Cadmium, Total	0.26 J-	5.2
Calcium, Total	87000 J	---
Chromium, Total	18	21
Cobalt, Total	2.8 J	20
Copper, Total	10	2900
Iron, Total	6600 J	15000 / 15900
Lead, Total	110 J	107
Magnesium, Total	41000 J	325000
Manganese, Total	220 J	630 / 636
Mercury, Total	0.015 J	0.89
Nickel, Total	6.6	100
Potassium, Total	510 J+	---
Selenium, Total	0.26 J	1.3
Sodium, Total	1100 J-	---
Vanadium, Total	9.5 J	550
Zinc, Total	68 J-	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.29 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0024 J	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	0.01 J	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	1.4 J+	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.01 J	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.22 J	5

Summary Table of ISGS Site No. 2946-69
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	SH-1(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	SH-1	
Depth	0 - 1	
ISGS Site No.	2946-69	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.012 J	0.05
Barium, SPLP	0.17 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.055	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.044	0.65
Iron, SPLP	32 J+	5
Lead, SPLP	0.21	0.0075
Manganese, SPLP	0.47	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.025	0.1
Selenium, SPLP	ND	0.05
Zinc, SPLP	0.43 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108663-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 10:10:31 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: SH-1(0-1)-031016
Date Collected: 03/10/16 13:55
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-9
Matrix: Solid
Percent Solids: 91.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.2	ug/Kg	☼		03/14/16 17:03	1
Benzene	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 17:03	1
Bromodichloromethane	<5.5		5.5	0.93	ug/Kg	☼		03/14/16 17:03	1
Bromoform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 17:03	1
Bromomethane	<5.5	*	5.5	2.0	ug/Kg	☼		03/14/16 17:03	1
Carbon disulfide	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 17:03	1
Carbon tetrachloride	<5.5		5.5	1.2	ug/Kg	☼		03/14/16 17:03	1
Chlorobenzene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 17:03	1
Chloroethane	<5.5		5.5	2.3	ug/Kg	☼		03/14/16 17:03	1
Chloroform	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 17:03	1
Chloromethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 17:03	1
cis-1,2-Dichloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 17:03	1
cis-1,3-Dichloropropene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 17:03	1
Dibromochloromethane	<5.5		5.5	0.63	ug/Kg	☼		03/14/16 17:03	1
1,1-Dichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 17:03	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		03/14/16 17:03	1
1,1-Dichloroethene	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 17:03	1
1,2-Dichloropropane	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 17:03	1
1,3-Dichloropropene, Total	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 17:03	1
Ethylbenzene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 17:03	1
2-Hexanone	<5.5		5.5	1.7	ug/Kg	☼		03/14/16 17:03	1
Methylene Chloride	<5.5		5.5	4.2	ug/Kg	☼		03/14/16 17:03	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		03/14/16 17:03	1
methyl isobutyl ketone	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 17:03	1
Methyl tert-butyl ether	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 17:03	1
Styrene	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 17:03	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	0.87	ug/Kg	☼		03/14/16 17:03	1
Tetrachloroethene	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 17:03	1
Toluene	<5.5		5.5	1.9	ug/Kg	☼		03/14/16 17:03	1
trans-1,2-Dichloroethene	<5.5		5.5	1.4	ug/Kg	☼		03/14/16 17:03	1
trans-1,3-Dichloropropene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 17:03	1
1,1,1-Trichloroethane	<5.5		5.5	1.3	ug/Kg	☼		03/14/16 17:03	1
1,1,2-Trichloroethane	<5.5		5.5	1.1	ug/Kg	☼		03/14/16 17:03	1
Trichloroethene	<5.5		5.5	1.5	ug/Kg	☼		03/14/16 17:03	1
Vinyl chloride	<5.5	*	5.5	1.3	ug/Kg	☼		03/14/16 17:03	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/14/16 17:03*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*03/14/16 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/14/16 17:03*	*1*
Toluene-d8 (Surr)	*111*		*75 - 122*		*03/14/16 17:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
1,2-Dichlorobenzene	<180		180	43	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
1,4-Dichlorobenzene	<180		180	46	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1

Client Sample ID: SH-1(0-1)-031016
Date Collected: 03/10/16 13:55
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-9
Matrix: Solid
Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	82	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2,4,6-Trichlorophenol	<360		360	120	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2,4-Dichlorophenol	<360		360	85	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2,4-Dinitrophenol	<720		720	630	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2,4-Dinitrotoluene	<180		180	57	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2,6-Dinitrotoluene	<180		180	71	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2-Chlorophenol	<180		180	61	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2-Methylnaphthalene	**10**	**J**	36	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2-Methylphenol	<180		180	58	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2-Nitroaniline	<180		180	48	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
2-Nitrophenol	<360		360	85	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
3 & 4 Methylphenol	<180		180	60	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
3,3'-Dichlorobenzidine	<180	*	180	50	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
4,6-Dinitro-2-methylphenol	<720		720	290	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
4-Chloroaniline	<720		720	170	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
4-Chlorophenyl phenyl ether	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
4-Nitrophenol	<720		720	340	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Acenaphthene	**16**	**J**	36	6.5	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Acenaphthylene	**74**		36	4.7	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Anthracene	**74**		36	6.0	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Benzo[a]anthracene	**390**	*****	36	4.8	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Benzo[a]pyrene	**510**	*****	36	7.0	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Benzo[b]fluoranthene	**830**	*****	36	7.8	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Benzo[g,h,i]perylene	**320**	*****	36	12	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Benzo[k]fluoranthene	**99**	*****	36	11	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Bis(2-ethylhexyl) phthalate	**200**	*****	180	66	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Butyl benzyl phthalate	**120**	**J ***	180	68	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Carbazole	<180		180	90	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Chrysene	**480**	*****	36	9.8	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Dibenz(a,h)anthracene	**71**	*****	36	6.9	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Dibenzofuran	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Dimethyl phthalate	<180		180	47	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Di-n-butyl phthalate	<180		180	55	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Di-n-octyl phthalate	<180		180	59	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Fluoranthene	**660**		36	6.7	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Fluorene	**19**	**J**	36	5.1	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Hexachlorobenzene	<72		72	8.3	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Hexachlorobutadiene	<180		180	56	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Hexachlorocyclopentadiene	<720		720	210	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Hexachloroethane	<180		180	55	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1

Client Sample ID: SH-1(0-1)-031016
Date Collected: 03/10/16 13:55
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-9
Matrix: Solid
Percent Solids: 91.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**310**	*	36	9.3	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Isophorone	<180		180	40	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Naphthalene	**8.6**	J	36	5.5	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Nitrobenzene	<36		36	9.0	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
N-Nitrosodi-n-propylamine	<72		72	44	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Pentachlorophenol	<720		720	580	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Phenanthrene	**340**		36	5.0	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Phenol	<180		180	80	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1
Pyrene	**1400**	*	36	7.1	ug/Kg	☼	03/15/16 07:01	03/22/16 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*35 - 137*	*03/15/16 07:01*	*03/22/16 05:27*	*1*
2-Fluorobiphenyl	*86*		*25 - 119*	*03/15/16 07:01*	*03/22/16 05:27*	*1*
2-Fluorophenol	*87*		*25 - 110*	*03/15/16 07:01*	*03/22/16 05:27*	*1*
Nitrobenzene-d5	*73*		*25 - 115*	*03/15/16 07:01*	*03/22/16 05:27*	*1*
Phenol-d5	*86*		*31 - 110*	*03/15/16 07:01*	*03/22/16 05:27*	*1*
Terphenyl-d14	*195*	*X	*36 - 134*	*03/15/16 07:01*	*03/22/16 05:27*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:05	1
Barium	**0.29**	J	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:05	1
Cadmium	**0.0024**	J	0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:05	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:05	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:05	1
Copper	**0.010**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:05	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 12:05	1
Manganese	**1.4**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:05	1
Nickel	**0.010**	J	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:05	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:05	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:05	1
Zinc	**0.22**	J	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 12:05	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	J	0.050	0.010	mg/L		03/21/16 09:00	03/21/16 21:44	1
Barium	**0.17**	J	0.50	0.050	mg/L		03/21/16 09:00	03/21/16 21:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/21/16 21:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/21/16 21:44	1
Chromium	**0.055**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:44	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:44	1
Copper	**0.044**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:44	1
Iron	**32**		0.40	0.20	mg/L		03/21/16 09:00	03/21/16 21:44	1
Lead	**0.21**		0.0075	0.0075	mg/L		03/21/16 09:00	03/21/16 21:44	1
Manganese	**0.47**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:44	1
Nickel	**0.025**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:44	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/21/16 21:44	1

Client Sample ID: SH-1(0-1)-031016
Date Collected: 03/10/16 13:55
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-9
Matrix: Solid
Percent Solids: 91.1

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:44	1
Zinc	**0.43**	**J B**	0.50	0.020	mg/L		03/21/16 09:00	03/21/16 21:44	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.19**	**J**	0.81	0.17	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Arsenic	**2.2**		0.41	0.19	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Barium	**42**		0.41	0.075	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Beryllium	**0.26**		0.16	0.035	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Cadmium	**0.26**		0.081	0.024	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Calcium	**87000**	**B**	81	26	mg/Kg	☼	03/16/16 11:15	03/20/16 04:30	10
Chromium	**18**		0.41	0.070	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Cobalt	**2.8**		0.20	0.046	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Copper	**10**		0.41	0.088	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Iron	**6600**		8.1	3.1	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Lead	**110**		0.20	0.10	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Magnesium	**41000**	**B**	4.1	1.7	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Manganese	**220**		0.41	0.081	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Nickel	**6.6**		0.41	0.11	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Potassium	**510**		20	3.3	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Selenium	**0.26**	**J**	0.41	0.20	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Silver	<0.20		0.20	0.048	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Sodium	**1100**		41	5.4	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Thallium	<0.41		0.41	0.20	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Vanadium	**9.5**		0.20	0.059	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1
Zinc	**68**		0.81	0.26	mg/Kg	☼	03/16/16 11:15	03/19/16 04:44	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:35	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 21:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**15**	**J**	16	8.4	ug/Kg	☼	03/18/16 15:00	03/19/16 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.91**		0.200	0.200	SU			03/14/16 15:48	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
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.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108663-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-108663 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 3.0

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039-1C Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Mercury	TCLP SPLP Metals	pH					
1		FPD-3(0-1)-031016	031016	1205	2	S		X	X	X	X	X					
2		FPD-3(0-1)-031016 D		1205				X	X	X	X	X					
3		FPD-2(0-1)-031016		1210				X	X	X	X	X					
4		FPD-1(0-1)-031016		1224				X	X	X	X	X					
5		R67-3(0-1)-031016		1300				X	X	X	X	X					
6		R67-2(0-1)-031016		1311				X	X	X	X	X					
7		R67-1(0-1)-031016		1323				X	X	X	X	X					
8		SH-2(0-1)-031016		1339				X	X	X	X	X					
9		SH-1(0-1)-031016		1355				X	X	X	X	X					
10		R72-2(0-1)-031016		1406				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Redacted Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[redacted]	WESTON	031016	1610	[redacted]	TA	3/10/16	1600
[redacted]	TA	3/10/16	1655	[redacted]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

Client: WESTON
Client Project #:
Project Name: IDOT 039-1L Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		RT2-1(0-1)-031016	031016	1415	2	S		X	X	X	X	X					
12		IB-1(0-1)-031016	031016	1435	2	S		X	X	X	X	X					
13		IB-2(0-1)-031016		1445	2	S		X	X	X	X	X					
14		IB-3(0-1)-031016		1455	2	S		X	X	X	X	X					
15		IB-4(0-1)-031016		1510	2	S		X	X	X	X	X					
16		IB-5(0-1)-031016		1517	2	S		X	X	X	X	X					
17		AL3-5(0-1)-031016		1540	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rel Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	03/10/16	1615	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
1700 block of S. Water Street (ISGS Site No. 2946-70)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.286666654 (Decimal Degrees) Longitude: -88.132998681 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.286666654 Longitude: -88.132998681

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 AL70-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-70. 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 IDs: 500-108390-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-70
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL70-2(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	
Location ID	AL70-2	
Depth	0 - 1	
ISGS Site No.	2946-70	
Parameter		
Laboratory pH (s.u.)	7.66	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthene	12 J	570000
Acenaphthylene	20 J	---
Anthracene	29 J	1.20E+07
Benzo(a)anthracene	180 J	900 / 1100 / 1800
Benzo(a)pyrene	240 J	90 / 1300 / 2100
Benzo(b)fluoranthene	430 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	170 J	---
Benzo(k)fluoranthene	170 J	9000
Chrysene	240 J	88000
Dibenzo(a,h)anthracene	40 J	90 / 200 / 420
Fluoranthene	400	3100000
Fluorene	12 J	560000
Indeno(1,2,3-cd)pyrene	160 J	900 / 900 / 1600
Phenanthrene	240	---
Pyrene	740 J	2300000
Total Metals (mg/kg)		
Arsenic, Total	3	11.3 / 13
Barium, Total	57 J-	1500
Beryllium, Total	0.31	22
Cadmium, Total	0.26	5.2
Calcium, Total	25000 J	---
Chromium, Total	10 J-	21
Cobalt, Total	3.4	20
Copper, Total	13	2900
Iron, Total	7800 J	15000 / 15900
Lead, Total	76 J	107
Magnesium, Total	15000 J	325000
Manganese, Total	240 J	630 / 636
Nickel, Total	8	100
Potassium, Total	560 J+	---
Selenium, Total	0.32 J	1.3
Sodium, Total	600 J-	---
Vanadium, Total	12	550
Zinc, Total	64	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.38 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.74	0.15
Nickel, TCLP	ND	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	ND	5

Summary Table of ISGS Site No. 2946-70
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	AL70-2(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	
Location ID	AL70-2	
Depth	0 - 1	
ISGS Site No.	2946-70	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.019 J	0.05
Barium, SPLP	0.37 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.071 J	0.1
Cobalt, SPLP	0.013 J	1
Copper, SPLP	0.052	0.65
Iron, SPLP	57 J	5
Lead, SPLP	0.17 J-	0.0075
Manganese, SPLP	0.78	0.15
Nickel, SPLP	0.043 J	0.1
Selenium, SPLP	ND	0.05
Zinc, SPLP	0.36 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: AL70-2(0-1)-030416
Date Collected: 03/04/16 09:47
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-6
Matrix: Solid
Percent Solids: 85.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.5	ug/Kg	☼		03/06/16 13:30	1
Benzene	<5.9		5.9	1.3	ug/Kg	☼		03/06/16 13:30	1
Bromodichloromethane	<5.9		5.9	0.99	ug/Kg	☼		03/06/16 13:30	1
Bromoform	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 13:30	1
Bromomethane	<5.9		5.9	2.2	ug/Kg	☼		03/06/16 13:30	1
Carbon disulfide	<5.9		5.9	2.2	ug/Kg	☼		03/06/16 13:30	1
Carbon tetrachloride	<5.9		5.9	1.3	ug/Kg	☼		03/06/16 13:30	1
Chlorobenzene	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 13:30	1
Chloroethane	<5.9		5.9	2.5	ug/Kg	☼		03/06/16 13:30	1
Chloroform	<5.9		5.9	1.1	ug/Kg	☼		03/06/16 13:30	1
Chloromethane	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 13:30	1
cis-1,2-Dichloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 13:30	1
cis-1,3-Dichloropropene	<5.9		5.9	1.3	ug/Kg	☼		03/06/16 13:30	1
Dibromochloromethane	<5.9		5.9	0.67	ug/Kg	☼		03/06/16 13:30	1
1,1-Dichloroethane	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 13:30	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		03/06/16 13:30	1
1,1-Dichloroethene	<5.9		5.9	2.1	ug/Kg	☼		03/06/16 13:30	1
1,2-Dichloropropane	<5.9		5.9	1.5	ug/Kg	☼		03/06/16 13:30	1
1,3-Dichloropropene, Total	<5.9		5.9	1.7	ug/Kg	☼		03/06/16 13:30	1
Ethylbenzene	<5.9		5.9	1.5	ug/Kg	☼		03/06/16 13:30	1
2-Hexanone	<5.9		5.9	1.8	ug/Kg	☼		03/06/16 13:30	1
Methylene Chloride	<5.9		5.9	4.4	ug/Kg	☼		03/06/16 13:30	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		03/06/16 13:30	1
methyl isobutyl ketone	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 13:30	1
Methyl tert-butyl ether	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 13:30	1
Styrene	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 13:30	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	0.93	ug/Kg	☼		03/06/16 13:30	1
Tetrachloroethene	<5.9		5.9	1.2	ug/Kg	☼		03/06/16 13:30	1
Toluene	<5.9		5.9	2.0	ug/Kg	☼		03/06/16 13:30	1
trans-1,2-Dichloroethene	<5.9		5.9	1.5	ug/Kg	☼		03/06/16 13:30	1
trans-1,3-Dichloropropene	<5.9		5.9	1.7	ug/Kg	☼		03/06/16 13:30	1
1,1,1-Trichloroethane	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 13:30	1
1,1,2-Trichloroethane	<5.9		5.9	1.1	ug/Kg	☼		03/06/16 13:30	1
Trichloroethene	<5.9		5.9	1.6	ug/Kg	☼		03/06/16 13:30	1
Vinyl chloride	<5.9		5.9	1.4	ug/Kg	☼		03/06/16 13:30	1
Xylenes, Total	<12		12	2.2	ug/Kg	☼		03/06/16 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/06/16 13:30*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*03/06/16 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/06/16 13:30*	*1*
Toluene-d8 (Surr)	*108*		*75 - 122*		*03/06/16 13:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2,2'-oxybis[1-chloropropane]	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1

Client Sample ID: AL70-2(0-1)-030416
Date Collected: 03/04/16 09:47
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-6
Matrix: Solid
Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	84	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2,4-Dichlorophenol	<370		370	87	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2,4-Dinitrophenol	<740		740	650	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2-Chlorophenol	<180		180	63	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2-Methylphenol	<180		180	59	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2-Nitroaniline	<180		180	50	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
2-Nitrophenol	<370		370	87	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
3,3'-Dichlorobenzidine	<180	*	180	52	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
4,6-Dinitro-2-methylphenol	<740		740	300	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
4-Bromophenyl phenyl ether	<180		180	49	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
4-Nitroaniline	<370		370	150	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Acenaphthene	**12**	**J**	37	6.6	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Acenaphthylene	**20**	**J**	37	4.9	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Anthracene	**29**	**J**	37	6.1	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Benzo[a]anthracene	**180**	*****	37	5.0	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Benzo[a]pyrene	**240**	*****	37	7.1	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Benzo[b]fluoranthene	**430**	*****	37	7.9	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Benzo[g,h,i]perylene	**170**	*****	37	12	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Benzo[k]fluoranthene	**170**	*****	37	11	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Bis(2-chloroethoxy)methane	<180		180	38	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Bis(2-ethylhexyl) phthalate	<180	*	180	67	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Butyl benzyl phthalate	<180	*	180	70	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Carbazole	<180		180	92	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Chrysene	**240**	*****	37	10	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Dibenz(a,h)anthracene	**40**	*****	37	7.1	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Dibenzofuran	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Fluoranthene	**400**		37	6.8	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Fluorene	**12**	**J**	37	5.2	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Hexachlorobutadiene	<180		180	58	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Hexachloroethane	<180		180	56	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1

Client Sample ID: AL70-2(0-1)-030416
Date Collected: 03/04/16 09:47
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-6
Matrix: Solid
Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**160**	*	37	9.5	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Isophorone	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Nitrobenzene	<37		37	9.2	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
N-Nitrosodi-n-propylamine	<74		74	45	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Phenanthrene	**240**		37	5.1	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Phenol	<180		180	82	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1
Pyrene	**740**	*	37	7.3	ug/Kg	☼	03/07/16 16:21	03/11/16 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*35 - 137*	*03/07/16 16:21*	*03/11/16 00:54*	*1*
2-Fluorobiphenyl	*78*		*25 - 119*	*03/07/16 16:21*	*03/11/16 00:54*	*1*
2-Fluorophenol	*81*		*25 - 110*	*03/07/16 16:21*	*03/11/16 00:54*	*1*
Nitrobenzene-d5	*70*		*25 - 115*	*03/07/16 16:21*	*03/11/16 00:54*	*1*
Phenol-d5	*82*		*31 - 110*	*03/07/16 16:21*	*03/11/16 00:54*	*1*
Terphenyl-d14	*155*	*X *	*36 - 134*	*03/07/16 16:21*	*03/11/16 00:54*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 17:49	1
Barium	**0.38**	**J**	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 17:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 17:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 17:49	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:49	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:49	1
Copper	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:49	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 17:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 17:49	1
Manganese	**0.74**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:49	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:49	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 17:49	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:49	1
Zinc	**0.17**	**J B**	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 17:49	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.019**	**J**	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 03:17	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 03:17	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 03:17	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 03:17	1
Chromium	**0.071**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:17	1
Cobalt	**0.013**	**J**	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:17	1
Copper	**0.052**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:17	1
Iron	**57**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 03:17	1
Lead	**0.17**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 03:17	1
Manganese	**0.78**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:17	1
Nickel	**0.043**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:17	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 03:17	1

Client Sample ID: AL70-2(0-1)-030416

Date Collected: 03/04/16 09:47
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-6

Matrix: Solid
Percent Solids: 85.4

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 03:17	1
Zinc	**0.36**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 03:17	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Arsenic	**3.0**		0.51	0.24	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Barium	**57**		0.51	0.093	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Beryllium	**0.31**		0.20	0.044	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Cadmium	**0.26**		0.10	0.030	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Calcium	**25000**	**B**	10	3.3	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Chromium	**10**	**B**	0.51	0.088	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Cobalt	**3.4**		0.25	0.058	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Copper	**13**		0.51	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Iron	**7800**	**B**	10	3.9	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Lead	**76**		0.25	0.13	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Magnesium	**15000**	**B**	5.1	2.1	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Manganese	**240**		0.51	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Nickel	**8.0**		0.51	0.14	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Potassium	**560**		25	4.2	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Selenium	**0.32**	**J**	0.51	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Silver	<0.25		0.25	0.060	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Sodium	**600**		51	6.7	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Vanadium	**12**		0.25	0.074	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1
Zinc	**64**		1.0	0.32	mg/Kg	☼	03/06/16 09:35	03/07/16 21:12	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 19:07	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	9.0	ug/Kg	☼	03/07/16 19:00	03/11/16 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.66**		0.200	0.200	SU			03/07/16 14:51	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

1700 block of S. Water Street (ISGS Site No. 2946-71)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.288751840 (Decimal Degrees) Longitude: -88.134386637 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.288751840 Longitude: -88.134386637

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 FB-2 AND FB-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2946-71. 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 IDs: 500-108390-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 APRIL 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-71
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	FB-2(0-1)-030416	FB-3(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	FB-2	FB-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-71	2946-71	
Parameter			
Laboratory pH (s.u.)	8.99	8.25	<6.25,>9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Acenaphthylene	12 J	ND	---
Anthracene	21 J	12 J	1.20E+07
Benzo(a)anthracene	150	96	900 / 1100 / 1800
Benzo(a)pyrene	230 J	120 J	90 / 1300 / 2100
Benzo(b)fluoranthene	370 J	210 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	120 J	59 J	---
Benzo(k)fluoranthene	150 J	87 J	9000
Chrysene	190	120	88000
Dibenzo(a,h)anthracene	30 J	ND	90 / 200 / 420
Fluoranthene	280	180	3100000
Indeno(1,2,3-cd)pyrene	120 J	56 J	900 / 900 / 1600
Phenanthrene	110	83	---
Pyrene	450	300	2300000
Total Metals (mg/kg)			
Antimony, Total	ND	0.27 J	5
Arsenic, Total	3.5	3.6	11.3 / 13
Barium, Total	51 J-	38 J-	1500
Beryllium, Total	0.31	0.24	22
Cadmium, Total	0.14	0.19	5.2
Calcium, Total	14000 J	24000 J	---
Chromium, Total	8.6 J-	8.6 J-	21
Cobalt, Total	3	3.3	20
Copper, Total	8	9.1	2900
Iron, Total	7700 J	6800 J	15000 / 15900
Lead, Total	19 J	44 J	107
Magnesium, Total	8500 J	12000 J	325000
Manganese, Total	140 J	180 J	630 / 636
Mercury, Total	0.036 J	0.026 J	0.89
Nickel, Total	7.4	7.5	100
Potassium, Total	470 J+	490 J+	---
Selenium, Total	ND	0.39 J	1.3
Sodium, Total	950 J-	540 J-	---
Vanadium, Total	13	10	550
Zinc, Total	40	45	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.36 J	0.34 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	1.5	0.81	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5

Summary Table of ISGS Site No. 2946-71
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	FB-2(0-1)-030416	FB-3(0-1)-030416	**Soil Reference Concentrations[A]**
Sample Date	3/4/2016	3/4/2016	
Location ID	FB-2	FB-3	
Depth	0 - 1	0 - 1	
ISGS Site No.	2946-71	2946-71	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.029 J	0.022 J	0.05
Barium, SPLP	0.47 J	0.27 J	2
Beryllium, SPLP	0.004	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.1 J	0.056 J	0.1
Cobalt, SPLP	0.019 J	0.013 J	1
Copper, SPLP	0.067	0.047	0.65
Iron, SPLP	87 J	52 J	5
Lead, SPLP	0.14 J-	0.13 J-	0.0075
Manganese, SPLP	0.91	0.69	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.069 J	0.041 J	0.1
Selenium, SPLP	ND	ND	0.05
Zinc, SPLP	0.42 J	0.28 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108390-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/15/2016 8:10:27 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: FB-2(0-1)-030416
Date Collected: 03/04/16 09:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-3
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		23	4.4	ug/Kg	☼		03/06/16 12:12	1
Benzene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:12	1
Bromodichloromethane	<5.6		5.6	0.95	ug/Kg	☼		03/06/16 12:12	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:12	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/06/16 12:12	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/06/16 12:12	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:12	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:12	1
Chloroethane	<5.6		5.6	2.4	ug/Kg	☼		03/06/16 12:12	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:12	1
Chloromethane	<5.6		5.6	1.4	ug/Kg	☼		03/06/16 12:12	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:12	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:12	1
Dibromochloromethane	<5.6		5.6	0.65	ug/Kg	☼		03/06/16 12:12	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:12	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		03/06/16 12:12	1
1,1-Dichloroethene	<5.6		5.6	2.1	ug/Kg	☼		03/06/16 12:12	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/06/16 12:12	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/06/16 12:12	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/06/16 12:12	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/06/16 12:12	1
Methylene Chloride	<5.6		5.6	4.3	ug/Kg	☼		03/06/16 12:12	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/06/16 12:12	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:12	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:12	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:12	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/06/16 12:12	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:12	1
Toluene	<5.6		5.6	2.0	ug/Kg	☼		03/06/16 12:12	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/06/16 12:12	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/06/16 12:12	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:12	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:12	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/06/16 12:12	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:12	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/06/16 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/06/16 12:12*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*03/06/16 12:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/06/16 12:12*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/06/16 12:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1

Client Sample ID: FB-2(0-1)-030416
Date Collected: 03/04/16 09:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-3
Matrix: Solid
Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2,4-Dinitrophenol	<750		750	650	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2-Methylphenol	<190		190	60	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
4,6-Dinitro-2-methylphenol	<750		750	300	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Acenaphthylene	**12**	**J**	37	4.9	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Anthracene	**21**	**J**	37	6.2	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Benzo[a]anthracene	**150**		37	5.0	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Benzo[a]pyrene	**230**	*	37	7.2	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Benzo[b]fluoranthene	**370**	*	37	8.0	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Benzo[g,h,i]perylene	**120**	*	37	12	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Benzo[k]fluoranthene	**150**	*	37	11	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Carbazole	<190		190	93	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Chrysene	**190**		37	10	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Dibenz(a,h)anthracene	**30**	**J ***	37	7.2	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Dibenzofuran	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Fluoranthene	**280**		37	6.9	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Fluorene	<37		37	5.2	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Hexachloroethane	<190		190	57	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1

Client Sample ID: FB-2(0-1)-030416
Date Collected: 03/04/16 09:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-3
Matrix: Solid
Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**120**	*	37	9.6	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Isophorone	<190		190	42	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Naphthalene	<37		37	5.7	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
N-Nitrosodi-n-propylamine	<75		75	45	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Phenanthrene	**110**		37	5.2	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Phenol	<190		190	83	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1
Pyrene	**450**		37	7.4	ug/Kg	☼	03/07/16 16:21	03/10/16 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*35 - 137*	*03/07/16 16:21*	*03/10/16 23:36*	*1*
2-Fluorobiphenyl	*82*		*25 - 119*	*03/07/16 16:21*	*03/10/16 23:36*	*1*
2-Fluorophenol	*91*		*25 - 110*	*03/07/16 16:21*	*03/10/16 23:36*	*1*
Nitrobenzene-d5	*82*		*25 - 115*	*03/07/16 16:21*	*03/10/16 23:36*	*1*
Phenol-d5	*92*		*31 - 110*	*03/07/16 16:21*	*03/10/16 23:36*	*1*
Terphenyl-d14	*162*	*X*	*36 - 134*	*03/07/16 16:21*	*03/10/16 23:36*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 17:04	1
Barium	**0.36**	**J**	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 17:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 17:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 17:04	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:04	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:04	1
Copper	**0.016**	**J B**	0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:04	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 17:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 17:04	1
Manganese	**1.5**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:04	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:04	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 17:04	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:04	1
Zinc	**0.13**	**J B**	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 17:04	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		03/09/16 08:43	03/10/16 02:41	1
Barium	**0.47**	**J**	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 02:41	1
Beryllium	**0.0040**		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 02:41	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 02:41	1
Chromium	**0.10**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:41	1
Cobalt	**0.019**	**J**	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:41	1
Copper	**0.067**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:41	1
Iron	**87**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 02:41	1
Lead	**0.14**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 02:41	1
Manganese	**0.91**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:41	1
Nickel	**0.069**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:41	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 02:41	1

Client Sample ID: FB-2(0-1)-030416
Date Collected: 03/04/16 09:00
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-3
Matrix: Solid
Percent Solids: 88.7

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:41	1
Zinc	**0.42**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 02:41	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Arsenic	**3.5**		0.51	0.24	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Barium	**51**		0.51	0.093	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Beryllium	**0.31**		0.20	0.044	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Cadmium	**0.14**		0.10	0.030	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Calcium	**14000**	**B**	10	3.3	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Chromium	**8.6**	**B**	0.51	0.088	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Cobalt	**3.0**		0.26	0.058	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Copper	**8.0**		0.51	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Iron	**7700**	**B**	10	3.9	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Lead	**19**		0.26	0.13	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Magnesium	**8500**	**B**	5.1	2.1	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Manganese	**140**		0.51	0.10	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Nickel	**7.4**		0.51	0.14	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Potassium	**470**		26	4.2	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Selenium	<0.51		0.51	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Silver	<0.26		0.26	0.060	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Sodium	**950**		51	6.7	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Thallium	<0.51		0.51	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Vanadium	**13**		0.26	0.075	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1
Zinc	**40**		1.0	0.32	mg/Kg	☼	03/06/16 09:35	03/07/16 20:56	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:53	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**36**		17	9.1	ug/Kg	☼	03/07/16 19:00	03/11/16 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.99**		0.200	0.200	SU			03/07/16 14:37	1

Client Sample ID: FB-3(0-1)-030416
Date Collected: 03/04/16 09:15
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-4
Matrix: Solid
Percent Solids: 89.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<22		22	4.3	ug/Kg	☼		03/06/16 12:38	1
Benzene	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:38	1
Bromodichloromethane	<5.6		5.6	0.94	ug/Kg	☼		03/06/16 12:38	1
Bromoform	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:38	1
Bromomethane	<5.6		5.6	2.1	ug/Kg	☼		03/06/16 12:38	1
Carbon disulfide	<5.6		5.6	2.1	ug/Kg	☼		03/06/16 12:38	1
Carbon tetrachloride	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:38	1
Chlorobenzene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:38	1
Chloroethane	<5.6		5.6	2.3	ug/Kg	☼		03/06/16 12:38	1
Chloroform	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:38	1
Chloromethane	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:38	1
cis-1,2-Dichloroethene	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:38	1
cis-1,3-Dichloropropene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:38	1
Dibromochloromethane	<5.6		5.6	0.64	ug/Kg	☼		03/06/16 12:38	1
1,1-Dichloroethane	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:38	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		03/06/16 12:38	1
1,1-Dichloroethene	<5.6		5.6	2.0	ug/Kg	☼		03/06/16 12:38	1
1,2-Dichloropropane	<5.6		5.6	1.5	ug/Kg	☼		03/06/16 12:38	1
1,3-Dichloropropene, Total	<5.6		5.6	1.6	ug/Kg	☼		03/06/16 12:38	1
Ethylbenzene	<5.6		5.6	1.4	ug/Kg	☼		03/06/16 12:38	1
2-Hexanone	<5.6		5.6	1.7	ug/Kg	☼		03/06/16 12:38	1
Methylene Chloride	<5.6		5.6	4.2	ug/Kg	☼		03/06/16 12:38	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		03/06/16 12:38	1
methyl isobutyl ketone	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:38	1
Methyl tert-butyl ether	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:38	1
Styrene	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:38	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	0.89	ug/Kg	☼		03/06/16 12:38	1
Tetrachloroethene	<5.6		5.6	1.2	ug/Kg	☼		03/06/16 12:38	1
Toluene	<5.6		5.6	1.9	ug/Kg	☼		03/06/16 12:38	1
trans-1,2-Dichloroethene	<5.6		5.6	1.4	ug/Kg	☼		03/06/16 12:38	1
trans-1,3-Dichloropropene	<5.6		5.6	1.6	ug/Kg	☼		03/06/16 12:38	1
1,1,1-Trichloroethane	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:38	1
1,1,2-Trichloroethane	<5.6		5.6	1.1	ug/Kg	☼		03/06/16 12:38	1
Trichloroethene	<5.6		5.6	1.5	ug/Kg	☼		03/06/16 12:38	1
Vinyl chloride	<5.6		5.6	1.3	ug/Kg	☼		03/06/16 12:38	1
Xylenes, Total	<11		11	2.1	ug/Kg	☼		03/06/16 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*03/06/16 12:38*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*03/06/16 12:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*03/06/16 12:38*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*03/06/16 12:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	38	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
1,3-Dichlorobenzene	<180		180	40	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1

Client Sample ID: FB-3(0-1)-030416
Date Collected: 03/04/16 09:15
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-4
Matrix: Solid
Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	80	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2,4-Dichlorophenol	<350		350	84	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2-Methylnaphthalene	<35		35	6.5	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2-Methylphenol	<180		180	57	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
3 & 4 Methylphenol	<180		180	59	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
3,3'-Dichlorobenzidine	<180		180	49	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
4,6-Dinitro-2-methylphenol	<710		710	280	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
4-Bromophenyl phenyl ether	<180		180	47	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
4-Chloroaniline	<710		710	170	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
4-Nitroaniline	<350		350	150	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
4-Nitrophenol	<710		710	340	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Acenaphthylene	<35		35	4.7	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Anthracene	**12**	**J**	35	5.9	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Benzo[a]anthracene	**96**		35	4.7	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Benzo[a]pyrene	**120**	*	35	6.8	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Benzo[b]fluoranthene	**210**	*	35	7.6	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Benzo[g,h,i]perylene	**59**	*	35	11	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Benzo[k]fluoranthene	**87**	*	35	10	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Carbazole	<180		180	88	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Chrysene	**120**		35	9.6	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Dibenz(a,h)anthracene	<35	*	35	6.8	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Dibenzofuran	<180		180	41	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Di-n-butyl phthalate	<180		180	54	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Di-n-octyl phthalate	<180		180	58	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Fluoranthene	**180**		35	6.5	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Fluorene	<35		35	5.0	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Hexachlorobenzene	<71		71	8.2	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Hexachloroethane	<180		180	54	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1

Client Sample ID: FB-3(0-1)-030416
Date Collected: 03/04/16 09:15
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-4
Matrix: Solid
Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**56**	*	35	9.1	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Isophorone	<180		180	40	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Naphthalene	<35		35	5.4	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Nitrobenzene	<35		35	8.8	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
N-Nitrosodi-n-propylamine	<71		71	43	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
N-Nitrosodiphenylamine	<180		180	42	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Pentachlorophenol	<710		710	570	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Phenanthrene	**83**		35	4.9	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Phenol	<180		180	78	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1
Pyrene	**300**		35	7.0	ug/Kg	☼	03/07/16 16:21	03/11/16 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*35 - 137*	*03/07/16 16:21*	*03/11/16 00:02*	*1*
2-Fluorobiphenyl	*76*		*25 - 119*	*03/07/16 16:21*	*03/11/16 00:02*	*1*
2-Fluorophenol	*75*		*25 - 110*	*03/07/16 16:21*	*03/11/16 00:02*	*1*
Nitrobenzene-d5	*65*		*25 - 115*	*03/07/16 16:21*	*03/11/16 00:02*	*1*
Phenol-d5	*74*		*31 - 110*	*03/07/16 16:21*	*03/11/16 00:02*	*1*
Terphenyl-d14	*159*	*X*	*36 - 134*	*03/07/16 16:21*	*03/11/16 00:02*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/08/16 14:44	03/09/16 17:35	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		03/08/16 14:44	03/09/16 17:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/08/16 14:44	03/09/16 17:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/08/16 14:44	03/09/16 17:35	1
Chromium	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:35	1
Cobalt	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:35	1
Copper	**0.031**	**B**	0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:35	1
Iron	<0.40		0.40	0.20	mg/L		03/08/16 14:44	03/09/16 17:35	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/08/16 14:44	03/09/16 17:35	1
Manganese	**0.81**		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:35	1
Nickel	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:35	1
Selenium	<0.050		0.050	0.020	mg/L		03/08/16 14:44	03/09/16 17:35	1
Silver	<0.025		0.025	0.010	mg/L		03/08/16 14:44	03/09/16 17:35	1
Zinc	**0.22**	**J B**	0.50	0.020	mg/L		03/08/16 14:44	03/09/16 17:35	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.022**	**J**	0.050	0.010	mg/L		03/09/16 08:43	03/10/16 02:48	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		03/09/16 08:43	03/10/16 02:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/09/16 08:43	03/10/16 02:48	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		03/09/16 08:43	03/10/16 02:48	1
Chromium	**0.056**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:48	1
Cobalt	**0.013**	**J**	0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:48	1
Copper	**0.047**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:48	1
Iron	**52**		0.40	0.20	mg/L		03/09/16 08:43	03/10/16 02:48	1
Lead	**0.13**		0.0075	0.0075	mg/L		03/09/16 08:43	03/10/16 02:48	1
Manganese	**0.69**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:48	1
Nickel	**0.041**		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/09/16 08:43	03/10/16 02:48	1

Client Sample ID: FB-3(0-1)-030416

Date Collected: 03/04/16 09:15
Date Received: 03/04/16 16:50

Lab Sample ID: 500-108390-4

Matrix: Solid
Percent Solids: 89.5

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/09/16 08:43	03/10/16 02:48	1
Zinc	**0.28**	**J**	0.50	0.020	mg/L		03/09/16 08:43	03/10/16 02:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.27**	**J**	1.0	0.21	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Arsenic	**3.6**		0.50	0.23	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Barium	**38**		0.50	0.092	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Beryllium	**0.24**		0.20	0.043	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Cadmium	**0.19**		0.10	0.029	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Calcium	**24000**	**B**	10	3.2	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Chromium	**8.6**	**B**	0.50	0.086	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Cobalt	**3.3**		0.25	0.057	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Copper	**9.1**		0.50	0.11	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Iron	**6800**	**B**	10	3.9	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Lead	**44**		0.25	0.12	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Magnesium	**12000**	**B**	5.0	2.0	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Manganese	**180**		0.50	0.099	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Nickel	**7.5**		0.50	0.14	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Potassium	**490**		25	4.1	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Selenium	**0.39**	**J**	0.50	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Silver	<0.25		0.25	0.059	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Sodium	**540**		50	6.6	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Thallium	<0.50		0.50	0.25	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Vanadium	**10**		0.25	0.073	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1
Zinc	**45**		1.0	0.32	mg/Kg	☼	03/06/16 09:35	03/07/16 21:01	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 18:55	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/08/16 19:15	03/10/16 20:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**26**		18	9.2	ug/Kg	☼	03/07/16 19:00	03/11/16 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.25**		0.200	0.200	SU			03/07/16 14:44	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108390-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Balasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address: SAME
Address: Lindelein, IL 60060	Address:
Phone: 224-801-7252	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #	Preservative
Weston		
Project Name		Parameter
IDOT 039		
Project Location/State	Lab Project #	
Wilmington, IL		
Sampler	Lab PM	
A. Turkasz	Dick Wright	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOC	SVOC	Total Metal	TCLP/SPLP metals	pH					Comments
1		FB-1(0-1)-030416	3/4/16	0839	2	S	X	X	X	X	X					
2		FB-1(0-1)-030416D	3/4/16	0839	2	S	X	X	X	X	X					
3		FB-2(0-1)-030416	3/4/16	0900	2	S	X	X	X	X	X					
4		FB-3(0-1)-030416	3/4/16	0915	2	S	X	X	X	X	X					
5		AL70-1(0-1)-030416	3/4/16	0930	2	S	X	X	X	X	X					
6		AL70-2(0-1)-030416	3/4/16	0947	2	S	X	X	X	X	X					
7		CFC-1(0-1)-030416	3/4/16	1000	2	S	X	X	X	X	X					
8		CFC-2(0-1)-030416	3/4/16	1009	2	S	X	X	X	X	X					
9		VLGG-1(0-1)-030416	3/4/16	1020	2	S	X	X	X	X	X					
10		VLGG-2(0-1)-030416	3/4/16	1035	2	S	X	X	X	X	X					

Preservative Key
1.
2
3
500-108390 COC
9. Other

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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1535
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-108390

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 3.9

(optional) Report To	(optional) Bill To
Contact: S. Babasubramanian	Contact:
Company: Weston Solutions	Company:
Address: 300 Plaza Cir, Ste 202	Address:
Address: Mundelein, IL 60060	Address: SAME
Phone: 224-864-7250	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT 039

Project Location/State: Wilmington, IL | Lab Project #:

Sampler: A. Turhast | Lab PM: Dick Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOC	SVOC	Total metals	TCLP/SPLP Metals	pH	Comments
11		RG5-1(0-1)-030416	3/4/16	1103	2	S	X	X	X	X	X	
12		RG5-1(0-1)-030416D	3/4/16	1103	2	S	X	X	X	X	X	
13		AL61-1(0-1)-030416	3/4/16	1125	2	S	X	X	X	X	X	
14		RG4-1(0-1)-030416	3/4/16	1130	2	S	X	X	X	X	X	
15		AL61-2(0-1)-030416	3/4/16	1142	2	S	X	X	X	X	X	
16		AL61-3(0-1)-030416	3/4/16	1200	2	S	X	X	X	X	X	
17		RG3-2(0-1)-030416	3/4/16	1250	2	S	X	X	X	X	X	
18		AL61-4(0-1)-030416	3/4/16	1303	2	S	X	X	X	X	X	
19		AL61-5(0-1)-030416	3/4/16	1313	2	S	X	X	X	X	X	
20		AL61-6(0-1)-030416	3/4/16	1330	2	S	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	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	3/4/16	1555	[signature]	TA	3/4/16	1555
[signature]	TA	3/4/16	1650	[signature]	TA-CHI	03/04/16	16:50

Lab Courier: TA-CHI
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

3/15/2016

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):

935 to 936 John Street (ISGS Site No. 2946-72)

City: Wesley Township State: IL Zip Code: _____

County: Will Township: _____

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.288153451 (Decimal Degrees) Longitude: -88.133879762 (-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	City:	Schaumburg
State:	IL	State:	IL
Zip Code:	60196-1096	Zip Code:	60196-1096
Phone:	847-705-4101	Phone:	847-705-4101
Contact:	Sam Mead	Contact:	Sam Mead
Email, if available:	Sam.Mead@illinois.gov	Email, if available:	Sam.Mead@illinois.gov

Project Name: FAP 361: IL 102 John St to Kankakee Cty Line

Latitude: 41.288153451 Longitude: -88.133879762

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

LOCATION R72-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2946-72. 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 IDs: 500-108663-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, William F. Karlovitz, P.E. (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: Weston Solutions, Inc.

Street Address: 300 Circle Plaza; Suite 202

City: Mundelein State: IL Zip Code: 60060

Phone: (224) 864-7200

William F. Karlovitz, P.E.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

25 April 2016
Date:

Licensed Professional Engineer of Illinois
WILLIAM F. KARLOVITZ
No. 062-052500

P.E. or L.P.G. Seal:

Summary Table of ISGS Site No. 2946-72
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R72-2(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	R72-2	
Depth	0 - 1	
ISGS Site No.	2946-72	
Parameter		
Laboratory pH (s.u.)	8.74	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthylene	26 J	---
Anthracene	24 J	1.20E+07
Benzo(a)anthracene	150	900 / 1100 / 1800
Benzo(a)pyrene	180 J	90 / 1300 / 2100
Benzo(b)fluoranthene	330 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	93 J	---
Benzo(k)fluoranthene	120 J	9000
bis(2-Ethylhexyl)phthalate	72 J	46000
Chrysene	170	88000
Dibenzo(a,h)anthracene	21 J	90 / 200 / 420
Fluoranthene	310	3100000
Fluorene	4.9 J	560000
Indeno(1,2,3-cd)pyrene	96 J	900 / 900 / 1600
Phenanthrene	93	---
Pyrene	330	2300000
Total Metals (mg/kg)		
Antimony, Total	0.34 J	5
Arsenic, Total	2.3 J	11.3 / 13
Barium, Total	14 J	1500
Beryllium, Total	0.24	22
Cadmium, Total	0.22 J-	5.2
Calcium, Total	160000 J	---
Chromium, Total	4.7	21
Cobalt, Total	2.5 J	20
Copper, Total	6.6	2900
Iron, Total	4500 J	15000 / 15900
Lead, Total	26 J	107
Magnesium, Total	98000 J	325000
Manganese, Total	210 J	630 / 636
Mercury, Total	0.011 J	0.89
Nickel, Total	5.8	100
Potassium, Total	560 J+	---
Selenium, Total	0.34 J	1.3
Sodium, Total	580 J-	---
Vanadium, Total	6 J	550
Zinc, Total	33 J-	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.27 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	0.0088	0.0075
Manganese, TCLP	1.4 J+	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.01 J	0.1
Selenium, TCLP	ND	0.05
Zinc, TCLP	0.36 J	5

Summary Table of ISGS Site No. 2946-72
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 361: Illinois Route 102 from John Street to Kankakee County Line
Wilmington and Ritchie, Will County, Illinois

Field Sample ID	R72-2(0-1)-031016	**Soil Reference Concentrations[A]**
Sample Date	3/10/2016	
Location ID	R72-2	
Depth	0 - 1	
ISGS Site No.	2946-72	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.18 J	2
Beryllium, SPLP	ND	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.059	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.049	0.65
Iron, SPLP	38 J+	5
Lead, SPLP	0.19	0.0075
Manganese, SPLP	0.32	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.029	0.1
Silver, SPLP	ND	0.05
Zinc, SPLP	0.42 J	5

Notes:

--- - not applicable or value not available.

[A] - Soil reference concentrations from MAC Table. Background values for Chicago corporate limits and MSA counties are included, as applicable.

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

J- - Estimated concentration, biased low.

J+ - Estimated concentration, biased high.

Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-108663-1
Client Project/Site: IDOT - IL Route 102 - WO 039

For:
Weston Solutions, Inc.
300 Plaza Circle, Suite 202
Mundelein, Illinois 60060

Attn: Mr. S. Babusukumar

Authorized for release by:
3/24/2016 10:10:31 AM

Richard Wright, Senior Project Manager
(708)534-5200
richard.wright@testamericainc.com

Client Sample ID: R72-2(0-1)-031016
Date Collected: 03/10/16 14:06
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-10
Matrix: Solid
Percent Solids: 93.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		21	4.2	ug/Kg	☼		03/14/16 17:28	1
Benzene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 17:28	1
Bromodichloromethane	<5.4		5.4	0.91	ug/Kg	☼		03/14/16 17:28	1
Bromoform	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 17:28	1
Bromomethane	<5.4	*	5.4	2.0	ug/Kg	☼		03/14/16 17:28	1
Carbon disulfide	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 17:28	1
Carbon tetrachloride	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 17:28	1
Chlorobenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 17:28	1
Chloroethane	<5.4		5.4	2.3	ug/Kg	☼		03/14/16 17:28	1
Chloroform	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 17:28	1
Chloromethane	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 17:28	1
cis-1,2-Dichloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 17:28	1
cis-1,3-Dichloropropene	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 17:28	1
Dibromochloromethane	<5.4		5.4	0.62	ug/Kg	☼		03/14/16 17:28	1
1,1-Dichloroethane	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 17:28	1
1,2-Dichloroethane	<5.4		5.4	0.79	ug/Kg	☼		03/14/16 17:28	1
1,1-Dichloroethene	<5.4		5.4	2.0	ug/Kg	☼		03/14/16 17:28	1
1,2-Dichloropropane	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 17:28	1
1,3-Dichloropropene, Total	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 17:28	1
Ethylbenzene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 17:28	1
2-Hexanone	<5.4		5.4	1.7	ug/Kg	☼		03/14/16 17:28	1
Methylene Chloride	<5.4		5.4	4.1	ug/Kg	☼		03/14/16 17:28	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 17:28	1
methyl isobutyl ketone	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 17:28	1
Methyl tert-butyl ether	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 17:28	1
Styrene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 17:28	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	0.85	ug/Kg	☼		03/14/16 17:28	1
Tetrachloroethene	<5.4		5.4	1.1	ug/Kg	☼		03/14/16 17:28	1
Toluene	<5.4		5.4	1.9	ug/Kg	☼		03/14/16 17:28	1
trans-1,2-Dichloroethene	<5.4		5.4	1.3	ug/Kg	☼		03/14/16 17:28	1
trans-1,3-Dichloropropene	<5.4		5.4	1.5	ug/Kg	☼		03/14/16 17:28	1
1,1,1-Trichloroethane	<5.4		5.4	1.2	ug/Kg	☼		03/14/16 17:28	1
1,1,2-Trichloroethane	<5.4		5.4	1.0	ug/Kg	☼		03/14/16 17:28	1
Trichloroethene	<5.4		5.4	1.4	ug/Kg	☼		03/14/16 17:28	1
Vinyl chloride	<5.4	*	5.4	1.3	ug/Kg	☼		03/14/16 17:28	1
Xylenes, Total	<11		11	2.0	ug/Kg	☼		03/14/16 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*03/14/16 17:28*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*03/14/16 17:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*03/14/16 17:28*	*1*
Toluene-d8 (Surr)	*114*		*75 - 122*		*03/14/16 17:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1

Client Sample ID: R72-2(0-1)-031016
Date Collected: 03/10/16 14:06
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-10
Matrix: Solid
Percent Solids: 93.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	78	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2-Methylphenol	<170		170	55	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
2-Nitrophenol	<340		340	80	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
3,3'-Dichlorobenzidine	<170		170	48	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
4,6-Dinitro-2-methylphenol	<690		690	270	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
4-Nitroaniline	<340		340	140	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
4-Nitrophenol	<690		690	320	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Acenaphthylene	**26**	**J**	34	4.5	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Anthracene	**24**	**J**	34	5.7	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Benzo[a]anthracene	**150**		34	4.6	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Benzo[a]pyrene	**180**	*****	34	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Benzo[b]fluoranthene	**330**	*****	34	7.3	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Benzo[g,h,i]perylene	**93**	*****	34	11	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Benzo[k]fluoranthene	**120**	*****	34	10	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Bis(2-ethylhexyl) phthalate	**72**	**J**	170	62	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Butyl benzyl phthalate	<170		170	65	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Carbazole	<170		170	85	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Chrysene	**170**		34	9.3	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Dibenz(a,h)anthracene	**21**	**J ***	34	6.6	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Dibenzofuran	<170		170	40	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Fluoranthene	**310**		34	6.3	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Fluorene	**4.9**	**J**	34	4.8	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Hexachlorobenzene	<69		69	7.9	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Hexachloroethane	<170		170	52	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1

Client Sample ID: R72-2(0-1)-031016
Date Collected: 03/10/16 14:06
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-10
Matrix: Solid
Percent Solids: 93.2

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	**96**	*	34	8.8	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Isophorone	<170		170	38	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Naphthalene	<34		34	5.2	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
N-Nitrosodi-n-propylamine	<69		69	42	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Phenanthrene	**93**		34	4.7	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Phenol	<170		170	76	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1
Pyrene	**330**		34	6.8	ug/Kg	☼	03/15/16 07:01	03/22/16 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*35 - 137*	*03/15/16 07:01*	*03/22/16 23:53*	*1*
2-Fluorobiphenyl	*75*		*25 - 119*	*03/15/16 07:01*	*03/22/16 23:53*	*1*
2-Fluorophenol	*79*		*25 - 110*	*03/15/16 07:01*	*03/22/16 23:53*	*1*
Nitrobenzene-d5	*70*		*25 - 115*	*03/15/16 07:01*	*03/22/16 23:53*	*1*
Phenol-d5	*75*		*31 - 110*	*03/15/16 07:01*	*03/22/16 23:53*	*1*
Terphenyl-d14	*115*		*36 - 134*	*03/15/16 07:01*	*03/22/16 23:53*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/20/16 14:00	03/22/16 12:10	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		03/20/16 14:00	03/22/16 12:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/20/16 14:00	03/22/16 12:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/20/16 14:00	03/22/16 12:10	1
Chromium	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:10	1
Cobalt	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:10	1
Copper	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:10	1
Iron	<0.40		0.40	0.20	mg/L		03/20/16 14:00	03/22/16 12:10	1
Lead	**0.0088**		0.0075	0.0075	mg/L		03/20/16 14:00	03/22/16 12:10	1
Manganese	**1.4**		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:10	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:10	1
Selenium	<0.050		0.050	0.020	mg/L		03/20/16 14:00	03/22/16 12:10	1
Silver	<0.025		0.025	0.010	mg/L		03/20/16 14:00	03/22/16 12:10	1
Zinc	**0.36**	**J**	0.50	0.020	mg/L		03/20/16 14:00	03/22/16 12:10	1

Method: 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		03/21/16 09:00	03/21/16 21:48	1
Barium	**0.18**	**J**	0.50	0.050	mg/L		03/21/16 09:00	03/21/16 21:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/21/16 09:00	03/21/16 21:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/21/16 09:00	03/21/16 21:48	1
Chromium	**0.059**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:48	1
Cobalt	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:48	1
Copper	**0.049**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:48	1
Iron	**38**		0.40	0.20	mg/L		03/21/16 09:00	03/21/16 21:48	1
Lead	**0.19**		0.0075	0.0075	mg/L		03/21/16 09:00	03/21/16 21:48	1
Manganese	**0.32**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:48	1
Nickel	**0.029**		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:48	1
Selenium	<0.050		0.050	0.020	mg/L		03/21/16 09:00	03/21/16 21:48	1

Client Sample ID: R72-2(0-1)-031016
Date Collected: 03/10/16 14:06
Date Received: 03/10/16 16:55

Lab Sample ID: 500-108663-10
Matrix: Solid
Percent Solids: 93.2

Method: 6010B - Metals (ICP) - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		03/21/16 09:00	03/21/16 21:48	1
Zinc	**0.42**	**J B**	0.50	0.020	mg/L		03/21/16 09:00	03/21/16 21:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.34**	**J**	0.97	0.20	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Arsenic	**2.3**		0.48	0.22	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Barium	**14**		0.48	0.088	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Beryllium	**0.24**		0.19	0.042	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Cadmium	**0.22**		0.097	0.028	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Calcium	**160000**	**B**	97	31	mg/Kg	☼	03/16/16 11:15	03/20/16 04:35	10
Chromium	**4.7**		0.48	0.083	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Cobalt	**2.5**		0.24	0.055	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Copper	**6.6**		0.48	0.10	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Iron	**4500**		9.7	3.7	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Lead	**26**		0.24	0.12	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Magnesium	**98000**	**B**	48	20	mg/Kg	☼	03/16/16 11:15	03/20/16 04:35	10
Manganese	**210**		0.48	0.096	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Nickel	**5.8**		0.48	0.13	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Potassium	**560**		24	3.9	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Selenium	**0.34**	**J**	0.48	0.24	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Silver	<0.24		0.24	0.057	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Sodium	**580**		48	6.4	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Thallium	<0.48		0.48	0.24	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Vanadium	**6.0**		0.24	0.071	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1
Zinc	**33**		0.97	0.31	mg/Kg	☼	03/16/16 11:15	03/19/16 04:58	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 20:36	1

Method: 7470A - Mercury (CVAA) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		03/20/16 18:00	03/21/16 21:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**11**	**J**	17	8.8	ug/Kg	☼	03/18/16 15:00	03/19/16 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.74**		0.200	0.200	SU			03/14/16 15:52	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
E	Result exceeded calibration range.
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.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - IL Route 102 - WO 039

TestAmerica Job ID: 500-108663-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534

500-108663 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 3.0

Client: WESTON SOLUTIONS
Client Project #:
Project Name: IDOT 039-1C Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Mercury	TCLP SPLP Metals	pH					
1		FPD-3(0-1)-031016	031016	1205	2	S		X	X	X	X	X					
2		FPD-3(0-1)-031016 D		1205				X	X	X	X	X					
3		FPD-2(0-1)-031016		1210				X	X	X	X	X					
4		FPD-1(0-1)-031016		1224				X	X	X	X	X					
5		R67-3(0-1)-031016		1300				X	X	X	X	X					
6		R67-2(0-1)-031016		1311				X	X	X	X	X					
7		R67-1(0-1)-031016		1323				X	X	X	X	X					
8		SH-2(0-1)-031016		1339				X	X	X	X	X					
9		SH-1(0-1)-031016		1355				X	X	X	X	X					
10		R72-2(0-1)-031016		1406				X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Redacted Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[redacted]	WESTON	031016	1610	[redacted]	TA	3/10/16	1600
[redacted]	TA	3/10/16	1655	[redacted]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: S. Babusumar
Company: Weston Solutions
Address: Mundelein, IL
Address:
Phone: 224-864-7250
Fax:
E-Mail:

(optional)

Bill To
Contact: SAME
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-108663

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler:

Client: WESTON
Client Project #:
Project Name: IDOT 039-1L Rte 102
Project Location/State: Wilmington, IL
Lab Project #:
Sampler: A. Simpson
Lab PM: D. Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7					Comments
							Parameter	VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	pH					
11		RT2-1(0-1)-031016	031016	1415	2	S		X	X	X	X	X					
12		IB-1(0-1)-031016	031016	1435	2	S		X	X	X	X	X					
13		IB-2(0-1)-031016		1445	2	S		X	X	X	X	X					
14		IB-3(0-1)-031016		1455	2	S		X	X	X	X	X					
15		IB-4(0-1)-031016		1510	2	S		X	X	X	X	X					
16		IB-5(0-1)-031016		1517	2	S		X	X	X	X	X					
17		AL3-5(0-1)-031016		1540	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Rel Standard ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] 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
[signature]	WESTON	03/10/16	1615	[signature]	TA	3/10/16	1600
[signature]	TA	3/10/16	1655	[signature]	TA-CHI	3/10/16	1655

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key
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S – Soil
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MS – Miscellaneous
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A – Air
SE – Sediment
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L – Leachate
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DW – Drinking Water
O – Other

Client Comments:

Lab Comments: