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 344: IL Rte 83 (Kingery Hwy) at 63rd St Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
6200 block of S. Kingery Highway

City: Willowbrook State: IL Zip Code: _____

County: DuPage Township: _____

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

Latitude: 41.775369222 Longitude: -87.946979108
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 344: IL Rte 83 (Kingery Hwy) at 63rd St

Latitude: 41.775369222 Longitude: -87.946979108

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 VL-1 AND VL-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 1983V-2. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-85946-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/20/14
Date:

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

Summary Table of ISGS Site No. 1983V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	VL-1(0-4)-101314	VL-1(0-4)-101314D	VL-1(4-8)-101314	VL-2(0-4)-101314	VL-2(4-8)-101314	**Soil Reference Concentrations[A]**
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	VL-1	VL-1	VL-1	VL-2	VL-2	
Depth	0 - 4	0 - 4	4 - 8	0 - 4	4 - 8	
ISGS Site Number	1983V-2	1983V-2	1983V-2	1983V-2	1983V-2	
Parameter						
Laboratory pH	8.18	8.3	8.16	7.9	8.02	<6.25, >9.0
VOCs (ug/kg)						
Acetone	ND	ND	29	130	ND	25000
Methyl ethyl ketone	ND	ND	ND	14	ND	---
SVOCs (ug/kg)						
Acenaphthylene	7.9 J	4.5 J	ND	ND	ND	---
Anthracene	8.7 J	6.4 J	ND	ND	ND	1.20E+07
Benzo(a)anthracene	44	33 J	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	53	42	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	63	59	ND	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	92 J	52 J	ND	ND	ND	---
Benzo(k)fluoranthene	27 J	27 J	ND	ND	ND	9000
Chrysene	50	43	ND	ND	ND	88000
Dibenzo(a,h)anthracene	18 J	ND	ND	ND	ND	90 / 200 / 420
Fluoranthene	60	57	ND	ND	ND	3100000
Fluorene	ND	ND	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	60 J	34 J	ND	ND	ND	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	ND	1800
Phenanthrene	23 J	20 J	ND	ND	ND	---
Pyrene	60	61	ND	ND	ND	2300000
Total Metals (mg/kg)						
Arsenic, Total	1.9 J	2.9 J	6.8 J	9.2 J	11 J	11.3/13.0
Barium, Total	10	14	45	54	27	1500
Beryllium, Total	0.16 J	0.2 J	0.7 J	0.61 J	0.47 J	22
Cadmium, Total	0.097 J	0.086 J	ND	0.24 J-	0.19 J-	5.2
Calcium, Total	110000 J	97000 J	4600 J	24000 J	35000 J	---
Chromium, Total	3.4 J-	4.6 J-	19 J-	15 J-	13 J-	21
Cobalt, Total	1.6 J	2.7 J	8.3 J	10 J	14 J	20
Copper, Total	4.8 J	6.3 J	33 J	31 J	35 J	2900
Iron, Total	4300 J-	5400 J-	21000 J-	19000 J-	19000 J-	15000/15900
Lead, Total	11 J	16 J	16 J	48 J	15 J	107
Magnesium, Total	59000 J	50000 J	5800 J	17000 J	25000 J	325000
Manganese, Total	180 J+	200 J+	200 J+	400 J+	430 J+	630/636
Mercury, Total	0.017 J	0.017 J	0.037 J	0.055 J	0.037 J	0.89
Nickel, Total	3.4 J	5.8 J	25 J	27 J	30 J	100
Potassium, Total	990 J+	1200 J+	2500 J+	2500 J+	2400 J+	---
Sodium, Total	190	220	350	560	580	---
Thallium, Total	0.37 J	0.46 J	2 J-	1.6 J-	2 J-	2.6
Vanadium, Total	5.3	7	21	20	16	550
Zinc, Total	10 J	14 J	59 J	50 J	42 J	5100

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Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	VL-1(0-4)-101314	VL-1(0-4)-101314D	VL-1(4-8)-101314	VL-2(0-4)-101314	VL-2(4-8)-101314	**Soil Reference Concentrations[A]**
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	VL-1	VL-1	VL-1	VL-2	VL-2	
Depth	0 - 4	0 - 4	4 - 8	0 - 4	4 - 8	
ISGS Site Number	1983V-2	1983V-2	1983V-2	1983V-2	1983V-2	
Parameter						
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	0.013 J	ND	0.05
Barium, TCLP	0.23 J	0.25 J	0.13 J	0.59	0.2 J	2
Cadmium, TCLP	ND	ND	ND	0.0027 J	ND	0.005
Cobalt, TCLP	ND	ND	0.028	0.052	ND	1
Copper, TCLP	0.011 J	0.014 J	0.014 J	0.021 J	0.012 J	0.65
Iron, TCLP	ND	ND	ND	ND	0.26	5
Lead, TCLP	ND	ND	ND	0.021	ND	0.0075
Manganese, TCLP	1.1	1.2	2.9	8.3	1.1	0.15
Nickel, TCLP	0.01 J	0.011 J	0.035	0.061	0.012 J	0.1
SPLP Metals (mg/l)						
Arsenic, SPLP	ND	0.016 J	0.017 J	ND	ND	0.05
Barium, SPLP	0.097 J	0.15 J	0.13 J	0.17 J	0.079 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.02 J	0.035	0.046	0.011 J	0.018 J	0.1
Cobalt, SPLP	ND	0.011 J	0.018 J	ND	ND	1
Copper, SPLP	0.038	0.053	0.07	0.028	0.041	0.65
Iron, SPLP	16 J	35 J	46 J+	10 J+	18 J+	5
Lead, SPLP	0.062	0.069	0.033	0.028	0.015	0.0075
Manganese, SPLP	0.11 J	0.21 J	0.63	0.53	0.1	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.021 J	0.039	0.054	0.019 J	0.029	0.1
Selenium, TCLP	ND	0.021 J	ND	0.029 J	0.021 J	0.05
Zinc, SPLP	0.088 J	0.13	0.12	0.047 J	0.069 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.

J- - Estimated concentration, biased low.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-85946-1
Client Project/Site: IDOT - Willowbrook - WO 089

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

Attn: Mr. S. Babusukumar

Authorized for release by:
10/28/2014 4:40:38 PM

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

Client Sample ID: VL-2(0-4)-101314
Date Collected: 10/13/14 10:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-10
Matrix: Solid
Percent Solids: 83.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**130**		6.0	2.6	ug/Kg	☼		10/16/14 16:40	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 16:40	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 16:40	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/16/14 16:40	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/16/14 16:40	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 16:40	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 16:40	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/16/14 16:40	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 16:40	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/16/14 16:40	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 16:40	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/16/14 16:40	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 16:40	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 16:40	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/16/14 16:40	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 16:40	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/16/14 16:40	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/16/14 16:40	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 16:40	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 16:40	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/16/14 16:40	1
Methylene Chloride	<6.0	*	6.0	1.6	ug/Kg	☼		10/16/14 16:40	1
Methyl Ethyl Ketone	**14**		6.0	2.2	ug/Kg	☼		10/16/14 16:40	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 16:40	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 16:40	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 16:40	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 16:40	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/16/14 16:40	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/16/14 16:40	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 16:40	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 16:40	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 16:40	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 16:40	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 16:40	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 16:40	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/16/14 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*10/16/14 16:40*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/16/14 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*		*10/16/14 16:40*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*10/16/14 16:40*	*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	☼	10/16/14 07:28	10/21/14 01:57	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-2(0-4)-101314
Date Collected: 10/13/14 10:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-10
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	<380		380	87	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
4-Nitroaniline	<380	*	380	160	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Anthracene	<38		38	6.4	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Benzo[a]anthracene	<38		38	5.2	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Benzo[a]pyrene	<38		38	7.4	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Benzo[b]fluoranthene	<38		38	8.3	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Benzo[g,h,i]perylene	<38		38	12	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Benzo[k]fluoranthene	<38		38	11	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Carbazole	<190	*	190	99	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Chrysene	<38		38	10	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Dibenz(a,h)anthracene	<38		38	7.4	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Fluoranthene	<38		38	7.1	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Hexachlorobenzene	<77		77	8.9	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Hexachloroethane	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-2(0-4)-101314
Date Collected: 10/13/14 10:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-10
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	<38		38	9.9	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Isophorone	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Phenanthrene	<38		38	5.3	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Phenol	<190		190	85	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1
Pyrene	<38		38	7.6	ug/Kg	☼	10/16/14 07:28	10/21/14 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*35 - 137*	*10/16/14 07:28*	*10/21/14 01:57*	*1*
2-Fluorobiphenyl	*55*		*25 - 119*	*10/16/14 07:28*	*10/21/14 01:57*	*1*
2-Fluorophenol	*49*		*25 - 110*	*10/16/14 07:28*	*10/21/14 01:57*	*1*
Nitrobenzene-d5	*55*		*25 - 115*	*10/16/14 07:28*	*10/21/14 01:57*	*1*
Phenol-d5	*41*		*31 - 110*	*10/16/14 07:28*	*10/21/14 01:57*	*1*
Terphenyl-d14	*73*		*36 - 134*	*10/16/14 07:28*	*10/21/14 01:57*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**	**J**	0.050	0.010	mg/L		10/18/14 09:00	10/28/14 02:58	1
Barium	**0.59**		0.50	0.050	mg/L		10/18/14 09:00	10/28/14 02:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 02:58	1
Cadmium	**0.0027**	**J**	0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 02:58	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:58	1
Cobalt	**0.052**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:58	1
Copper	**0.021**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:58	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 02:58	1
Lead	**0.021**		0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 12:59	1
Manganese	**8.3**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:58	1
Nickel	**0.061**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:58	1
Selenium	**0.029**	**J**	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 02:58	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:58	1
Zinc	**0.073**	**J**	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 02:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/17/14 09:30	10/27/14 18:14	1
Barium	**0.17**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:14	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:14	1
Chromium	**0.011**	**J**	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:14	1
Cobalt	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:14	1
Copper	**0.028**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:14	1
Iron	**10**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:14	1
Lead	**0.028**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:14	1
Manganese	**0.53**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:14	1
Nickel	**0.019**	**J**	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:14	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-2(0-4)-101314
Date Collected: 10/13/14 10:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:14	1
Zinc	**0.047**	**J**	0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Arsenic	**9.2**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Barium	**54**		0.59	0.063	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Beryllium	**0.61**		0.23	0.047	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Cadmium	**0.24**		0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Calcium	**24000**		12	3.2	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Chromium	**15**	**B**	0.59	0.068	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Cobalt	**10**		0.29	0.059	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Copper	**31**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Iron	**19000**		12	4.8	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Lead	**48**		0.29	0.087	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Magnesium	**17000**		5.9	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Manganese	**400**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Nickel	**27**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Potassium	**2500**		29	1.8	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Sodium	**560**		59	7.9	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Thallium	**1.6**		0.59	0.25	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Vanadium	**20**		0.29	0.043	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	1
Zinc	**50**	**B**	1.2	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 03:08	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		10/20/14 12:30	10/21/14 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**55**		20	7.7	ug/Kg	☼	10/17/14 15:00	10/20/14 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.90**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: VL-2(4-8)-101314
Date Collected: 10/13/14 10:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-11
Matrix: Solid
Percent Solids: 83.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		10/16/14 17:03	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 17:03	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 17:03	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/16/14 17:03	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/16/14 17:03	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 17:03	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 17:03	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/16/14 17:03	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 17:03	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/16/14 17:03	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 17:03	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/16/14 17:03	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 17:03	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 17:03	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/16/14 17:03	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 17:03	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/16/14 17:03	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/16/14 17:03	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 17:03	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 17:03	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/16/14 17:03	1
Methylene Chloride	<6.0	*	6.0	1.6	ug/Kg	☼		10/16/14 17:03	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/16/14 17:03	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 17:03	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 17:03	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 17:03	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 17:03	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/16/14 17:03	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/16/14 17:03	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/16/14 17:03	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 17:03	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 17:03	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 17:03	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 17:03	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 17:03	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/16/14 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*10/16/14 17:03*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*10/16/14 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*		*10/16/14 17:03*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*		*10/16/14 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	<200		200	42	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-2(4-8)-101314
Date Collected: 10/13/14 10:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-11
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
4-Nitroaniline	<390	*	390	160	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Benzo[b]fluoranthene	<39		39	8.5	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Carbazole	<200	*	200	100	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Chrysene	<39		39	11	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-2(4-8)-101314
Date Collected: 10/13/14 10:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-11
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Isophorone	<200		200	44	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Naphthalene	<39		39	6.0	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Phenol	<200		200	87	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1
Pyrene	<39		39	7.8	ug/Kg	☼	10/16/14 07:28	10/21/14 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*38*		*35 - 137*	*10/16/14 07:28*	*10/21/14 02:17*	*1*
2-Fluorobiphenyl	*45*		*25 - 119*	*10/16/14 07:28*	*10/21/14 02:17*	*1*
2-Fluorophenol	*37*		*25 - 110*	*10/16/14 07:28*	*10/21/14 02:17*	*1*
Nitrobenzene-d5	*47*		*25 - 115*	*10/16/14 07:28*	*10/21/14 02:17*	*1*
Phenol-d5	*37*		*31 - 110*	*10/16/14 07:28*	*10/21/14 02:17*	*1*
Terphenyl-d14	*68*		*36 - 134*	*10/16/14 07:28*	*10/21/14 02:17*	*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		10/18/14 09:00	10/28/14 03:03	1
Barium	**0.20**	**J**	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:03	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:03	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:03	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:03	1
Cobalt	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:03	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:03	1
Iron	**0.26**		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:03	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 03:03	1
Manganese	**1.1**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:03	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:03	1
Selenium	**0.021**	**J**	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:03	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:03	1
Zinc	**0.025**	**J**	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:03	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		10/17/14 09:30	10/27/14 18:21	1
Barium	**0.079**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:21	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:21	1
Chromium	**0.018**	**J**	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:21	1
Cobalt	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:21	1
Copper	**0.041**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:21	1
Iron	**18**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:21	1
Lead	**0.015**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:21	1
Manganese	**0.10**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:21	1
Nickel	**0.029**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:21	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:21	1

Client Sample ID: VL-2(4-8)-101314
Date Collected: 10/13/14 10:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:21	1
Zinc	**0.069**	**J**	0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:21	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Arsenic	**11**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Barium	**27**		0.58	0.062	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Beryllium	**0.47**		0.23	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Cadmium	**0.19**		0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Calcium	**35000**		12	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Chromium	**13**	**B**	0.58	0.067	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Cobalt	**14**		0.29	0.058	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Copper	**35**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Iron	**19000**		12	4.8	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Lead	**15**		0.29	0.086	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Magnesium	**25000**		5.8	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Manganese	**430**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Nickel	**30**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Potassium	**2400**		29	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Selenium	<0.58	L	0.58	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Sodium	**580**		58	7.8	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Thallium	**2.0**		0.58	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Vanadium	**16**		0.29	0.043	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	1
Zinc	**42**	**B**	1.2	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 03:14	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		10/20/14 12:30	10/21/14 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**37**		19	7.3	ug/Kg	☼	10/17/14 15:00	10/20/14 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.02**		0.200	0.200	SU			10/22/14 17:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-1(0-4)-101314
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-12
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	☼		10/16/14 17:26	1
Benzene	<5.3		5.3	0.73	ug/Kg	☼		10/16/14 17:26	1
Bromodichloromethane	<5.3		5.3	0.92	ug/Kg	☼		10/16/14 17:26	1
Bromoform	<5.3		5.3	1.2	ug/Kg	☼		10/16/14 17:26	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	☼		10/16/14 17:26	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	☼		10/16/14 17:26	1
Carbon tetrachloride	<5.3		5.3	0.97	ug/Kg	☼		10/16/14 17:26	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	☼		10/16/14 17:26	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	☼		10/16/14 17:26	1
Chloroform	<5.3		5.3	0.61	ug/Kg	☼		10/16/14 17:26	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:26	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	☼		10/16/14 17:26	1
cis-1,3-Dichloropropene	<5.3		5.3	0.70	ug/Kg	☼		10/16/14 17:26	1
Dibromochloromethane	<5.3		5.3	0.93	ug/Kg	☼		10/16/14 17:26	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	☼		10/16/14 17:26	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		10/16/14 17:26	1
1,1-Dichloroethene	<5.3		5.3	0.86	ug/Kg	☼		10/16/14 17:26	1
1,2-Dichloropropane	<5.3		5.3	0.81	ug/Kg	☼		10/16/14 17:26	1
1,3-Dichloropropene, Total	<5.3		5.3	0.70	ug/Kg	☼		10/16/14 17:26	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:26	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	☼		10/16/14 17:26	1
Methylene Chloride	<5.3	*	5.3	1.4	ug/Kg	☼		10/16/14 17:26	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		10/16/14 17:26	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	☼		10/16/14 17:26	1
Methyl tert-butyl ether	<5.3		5.3	0.88	ug/Kg	☼		10/16/14 17:26	1
Styrene	<5.3		5.3	0.70	ug/Kg	☼		10/16/14 17:26	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:26	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	☼		10/16/14 17:26	1
Toluene	<5.3		5.3	0.74	ug/Kg	☼		10/16/14 17:26	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	☼		10/16/14 17:26	1
trans-1,3-Dichloropropene	<5.3		5.3	0.95	ug/Kg	☼		10/16/14 17:26	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	☼		10/16/14 17:26	1
1,1,2-Trichloroethane	<5.3		5.3	0.73	ug/Kg	☼		10/16/14 17:26	1
Trichloroethene	<5.3		5.3	0.88	ug/Kg	☼		10/16/14 17:26	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:26	1
Xylenes, Total	<11		11	0.48	ug/Kg	☼		10/16/14 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*		*10/16/14 17:26*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/16/14 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*		*10/16/14 17:26*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*		*10/16/14 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	<180		180	38	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
1,2-Dichlorobenzene	<180		180	42	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
1,4-Dichlorobenzene	<180		180	45	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-1(0-4)-101314
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-12
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	<350		350	80	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2,4,6-Trichlorophenol	<350		350	120	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2,4-Dichlorophenol	<350		350	83	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2,4-Dimethylphenol	<350		350	130	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2,4-Dinitrophenol	<710		710	620	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2,6-Dinitrotoluene	<180		180	69	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2-Chlorophenol	<180		180	60	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2-Methylnaphthalene	<35		35	6.4	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2-Methylphenol	<180		180	56	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2-Nitroaniline	<180		180	47	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
2-Nitrophenol	<350		350	83	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
3 & 4 Methylphenol	<180		180	58	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
3,3'-Dichlorobenzidine	<180	*	180	49	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
3-Nitroaniline	<350		350	110	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
4,6-Dinitro-2-methylphenol	<350		350	280	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
4-Bromophenyl phenyl ether	<180		180	46	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
4-Chloro-3-methylphenol	<350		350	120	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
4-Chloroaniline	<710		710	160	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
4-Chlorophenyl phenyl ether	<180		180	41	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
4-Nitroaniline	<350	*	350	150	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
4-Nitrophenol	<710		710	330	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Acenaphthene	<35		35	6.3	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Acenaphthylene	**7.9**	**J**	35	4.6	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Anthracene	**8.7**	**J**	35	5.9	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Benzo[a]anthracene	**44**		35	4.7	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Benzo[a]pyrene	**53**		35	6.8	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Benzo[b]fluoranthene	**63**		35	7.6	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Benzo[g,h,i]perylene	**92**		35	11	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Benzo[k]fluoranthene	**27**	**J**	35	10	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Bis(2-chloroethoxy)methane	<180		180	36	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Bis(2-ethylhexyl) phthalate	<180		180	64	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Butyl benzyl phthalate	<180		180	67	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Carbazole	<180	*	180	90	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Chrysene	**50**		35	9.6	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Dibenz(a,h)anthracene	**18**	**J**	35	6.8	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Dibenzofuran	<180		180	41	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Di-n-butyl phthalate	<180		180	53	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Di-n-octyl phthalate	<180		180	57	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Fluoranthene	**60**		35	6.5	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Fluorene	<35		35	4.9	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Hexachlorobenzene	<71		71	8.1	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Hexachlorobutadiene	<180		180	55	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Hexachlorocyclopentadiene	<710		710	200	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Hexachloroethane	<180		180	53	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-1(0-4)-101314
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-12
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	60		35	9.1	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Isophorone	<180		180	39	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Naphthalene	<35		35	5.4	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Nitrobenzene	<35		35	8.7	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
N-Nitrosodi-n-propylamine	<180		180	43	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
N-Nitrosodiphenylamine	<180		180	41	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Pentachlorophenol	<710		710	560	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Phenanthrene	23	J	35	4.9	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Phenol	<180		180	78	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1
Pyrene	60		35	7.0	ug/Kg	☼	10/16/14 07:28	10/23/14 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*35 - 137*	*10/16/14 07:28*	*10/23/14 19:33*	*1*
2-Fluorobiphenyl	*62*		*25 - 119*	*10/16/14 07:28*	*10/23/14 19:33*	*1*
2-Fluorophenol	*71*		*25 - 110*	*10/16/14 07:28*	*10/23/14 19:33*	*1*
Nitrobenzene-d5	*61*		*25 - 115*	*10/16/14 07:28*	*10/23/14 19:33*	*1*
Phenol-d5	*54*		*31 - 110*	*10/16/14 07:28*	*10/23/14 19:33*	*1*
Terphenyl-d14	*86*		*36 - 134*	*10/16/14 07:28*	*10/23/14 19:33*	*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		10/18/14 09:00	10/28/14 03:08	1
Barium	0.23	J	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:08	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:08	1
Cobalt	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:08	1
Copper	0.011	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:08	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:08	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 03:08	1
Manganese	1.1		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:08	1
Nickel	0.010	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:08	1
Selenium	<0.050		0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:08	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:08	1
Zinc	0.036	J	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/17/14 09:30	10/27/14 18:27	1
Barium	0.097	J	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:27	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:27	1
Chromium	0.020	J	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:27	1
Cobalt	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:27	1
Copper	0.038		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:27	1
Iron	16		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:27	1
Lead	0.062		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:27	1
Manganese	0.11		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:27	1
Nickel	0.021	J	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:27	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:27	1

Client Sample ID: VL-1(0-4)-101314
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:27	1
Zinc	**0.088**	**J**	0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:27	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.40	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Arsenic	**1.9**		0.50	0.099	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Barium	**10**		0.50	0.053	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Beryllium	**0.16**	**J**	0.20	0.040	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Cadmium	**0.097**	**J**	0.10	0.013	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Calcium	**110000**		100	27	mg/Kg	☼	10/23/14 10:30	10/27/14 23:59	10
Chromium	**3.4**	**B**	0.50	0.058	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Cobalt	**1.6**		0.25	0.050	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Copper	**4.8**		0.50	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Iron	**4300**		10	4.1	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Lead	**11**		0.25	0.074	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Magnesium	**59000**		50	10	mg/Kg	☼	10/23/14 10:30	10/27/14 23:59	10
Manganese	**180**		0.50	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Nickel	**3.4**		0.50	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Potassium	**990**		25	1.5	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Selenium	<0.50		0.50	0.18	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Sodium	**190**		50	6.7	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Thallium	**0.37**	**J**	0.50	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Vanadium	**5.3**		0.25	0.037	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	1
Zinc	**10**	**B**	1.0	0.20	mg/Kg	☼	10/23/14 10:30	10/27/14 03:21	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		10/20/14 12:30	10/21/14 10:39	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		10/17/14 12:20	10/20/14 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**		17	6.8	ug/Kg	☼	10/17/14 15:00	10/20/14 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.18**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: VL-1(0-4)-101314D
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-13
Matrix: Solid
Percent Solids: 94.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	☼		10/16/14 17:50	1
Benzene	<5.3		5.3	0.73	ug/Kg	☼		10/16/14 17:50	1
Bromodichloromethane	<5.3		5.3	0.91	ug/Kg	☼		10/16/14 17:50	1
Bromoform	<5.3		5.3	1.2	ug/Kg	☼		10/16/14 17:50	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	☼		10/16/14 17:50	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	☼		10/16/14 17:50	1
Carbon tetrachloride	<5.3		5.3	0.97	ug/Kg	☼		10/16/14 17:50	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	☼		10/16/14 17:50	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	☼		10/16/14 17:50	1
Chloroform	<5.3		5.3	0.61	ug/Kg	☼		10/16/14 17:50	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:50	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	☼		10/16/14 17:50	1
cis-1,3-Dichloropropene	<5.3		5.3	0.70	ug/Kg	☼		10/16/14 17:50	1
Dibromochloromethane	<5.3		5.3	0.92	ug/Kg	☼		10/16/14 17:50	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	☼		10/16/14 17:50	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		10/16/14 17:50	1
1,1-Dichloroethene	<5.3		5.3	0.86	ug/Kg	☼		10/16/14 17:50	1
1,2-Dichloropropane	<5.3		5.3	0.81	ug/Kg	☼		10/16/14 17:50	1
1,3-Dichloropropene, Total	<5.3		5.3	0.70	ug/Kg	☼		10/16/14 17:50	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:50	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	☼		10/16/14 17:50	1
Methylene Chloride	<5.3	*	5.3	1.4	ug/Kg	☼		10/16/14 17:50	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		10/16/14 17:50	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	☼		10/16/14 17:50	1
Methyl tert-butyl ether	<5.3		5.3	0.88	ug/Kg	☼		10/16/14 17:50	1
Styrene	<5.3		5.3	0.70	ug/Kg	☼		10/16/14 17:50	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:50	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	☼		10/16/14 17:50	1
Toluene	<5.3		5.3	0.74	ug/Kg	☼		10/16/14 17:50	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	☼		10/16/14 17:50	1
trans-1,3-Dichloropropene	<5.3		5.3	0.95	ug/Kg	☼		10/16/14 17:50	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	☼		10/16/14 17:50	1
1,1,2-Trichloroethane	<5.3		5.3	0.72	ug/Kg	☼		10/16/14 17:50	1
Trichloroethene	<5.3		5.3	0.88	ug/Kg	☼		10/16/14 17:50	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	☼		10/16/14 17:50	1
Xylenes, Total	<11		11	0.48	ug/Kg	☼		10/16/14 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*		*10/16/14 17:50*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*10/16/14 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 134*		*10/16/14 17:50*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*10/16/14 17:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	37	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
1,2-Dichlorobenzene	<170		170	41	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
1,3-Dichlorobenzene	<170		170	39	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
1,4-Dichlorobenzene	<170		170	44	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2,2'-oxybis[1-chloropropane]	<170		170	40	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-1(0-4)-101314D
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-13
Matrix: Solid
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	78	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2,4,6-Trichlorophenol	<340		340	120	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2,4-Dichlorophenol	<340		340	81	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2,4-Dimethylphenol	<340		340	130	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2,4-Dinitrophenol	<690		690	600	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2,6-Dinitrotoluene	<170		170	67	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2-Methylnaphthalene	<34		34	6.3	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2-Methylphenol	<170		170	55	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2-Nitroaniline	<170		170	46	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
2-Nitrophenol	<340		340	81	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
3 & 4 Methylphenol	<170		170	57	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
3,3'-Dichlorobenzidine	<170	*	170	48	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
3-Nitroaniline	<340		340	110	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
4,6-Dinitro-2-methylphenol	<340		340	270	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
4-Bromophenyl phenyl ether	<170		170	45	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
4-Chloro-3-methylphenol	<340		340	120	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
4-Chloroaniline	<690		690	160	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
4-Chlorophenyl phenyl ether	<170		170	40	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
4-Nitroaniline	<340	*	340	140	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
4-Nitrophenol	<690		690	330	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Acenaphthene	<34		34	6.1	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Acenaphthylene	**4.5**	**J**	34	4.5	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Anthracene	**6.4**	**J**	34	5.7	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Benzo[a]anthracene	**33**	**J**	34	4.6	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Benzo[a]pyrene	**42**		34	6.6	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Benzo[b]fluoranthene	**59**		34	7.4	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Benzo[g,h,i]perylene	**52**		34	11	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Benzo[k]fluoranthene	**27**	**J**	34	10	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Bis(2-chloroethoxy)methane	<170		170	35	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Bis(2-ethylhexyl) phthalate	<170		170	62	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Butyl benzyl phthalate	<170		170	65	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Carbazole	<170	*	170	88	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Chrysene	**43**		34	9.3	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Dibenz(a,h)anthracene	<34		34	6.6	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Dibenzofuran	<170		170	40	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Diethyl phthalate	<170		170	58	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Dimethyl phthalate	<170		170	45	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Di-n-butyl phthalate	<170		170	52	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Di-n-octyl phthalate	<170		170	56	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Fluoranthene	**57**		34	6.3	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Fluorene	<34		34	4.8	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Hexachlorobenzene	<69		69	7.9	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Hexachlorobutadiene	<170		170	54	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Hexachlorocyclopentadiene	<690		690	200	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Hexachloroethane	<170		170	52	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-1(0-4)-101314D
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-13
Matrix: Solid
Percent Solids: 94.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	34		34	8.9	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Isophorone	<170		170	38	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Naphthalene	<34		34	5.3	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Nitrobenzene	<34		34	8.5	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
N-Nitrosodi-n-propylamine	<170		170	42	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Pentachlorophenol	<690		690	550	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Phenanthrene	20	J	34	4.8	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Phenol	<170		170	76	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1
Pyrene	61		34	6.8	ug/Kg	☼	10/16/14 07:28	10/23/14 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*35 - 137*	*10/16/14 07:28*	*10/23/14 19:53*	*1*
2-Fluorobiphenyl	*63*		*25 - 119*	*10/16/14 07:28*	*10/23/14 19:53*	*1*
2-Fluorophenol	*76*		*25 - 110*	*10/16/14 07:28*	*10/23/14 19:53*	*1*
Nitrobenzene-d5	*65*		*25 - 115*	*10/16/14 07:28*	*10/23/14 19:53*	*1*
Phenol-d5	*58*		*31 - 110*	*10/16/14 07:28*	*10/23/14 19:53*	*1*
Terphenyl-d14	*106*		*36 - 134*	*10/16/14 07:28*	*10/23/14 19:53*	*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		10/18/14 09:00	10/28/14 03:13	1
Barium	0.25	J	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:13	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:13	1
Cobalt	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:13	1
Copper	0.014	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:13	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:13	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 03:13	1
Manganese	1.2		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:13	1
Nickel	0.011	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:13	1
Selenium	0.021	J	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:13	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:13	1
Zinc	0.031	J	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:13	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		10/17/14 09:30	10/27/14 18:33	1
Barium	0.15	J	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:33	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:33	1
Chromium	0.035		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:33	1
Cobalt	0.011	J	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:33	1
Copper	0.053		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:33	1
Iron	35		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:33	1
Lead	0.069		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:33	1
Manganese	0.21		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:33	1
Nickel	0.039		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:33	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:33	1

Client Sample ID: VL-1(0-4)-101314D
Date Collected: 10/13/14 11:05
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:33	1
Zinc	**0.13**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:33	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Arsenic	**2.9**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Barium	**14**		0.52	0.055	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Beryllium	**0.20**	**J**	0.21	0.041	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Cadmium	**0.086**	**J**	0.10	0.013	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Calcium	**97000**		100	28	mg/Kg	☼	10/23/14 10:30	10/28/14 00:11	10
Chromium	**4.6**	**B**	0.52	0.060	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Cobalt	**2.7**		0.26	0.052	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Copper	**6.3**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Iron	**5400**		10	4.3	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Lead	**16**		0.26	0.077	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Magnesium	**50000**		5.2	1.1	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Manganese	**200**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Nickel	**5.8**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Potassium	**1200**		26	1.6	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Sodium	**220**		52	6.9	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Thallium	**0.46**	**J**	0.52	0.22	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Vanadium	**7.0**		0.26	0.038	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1
Zinc	**14**	**B**	1.0	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 03:27	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:45	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		10/17/14 12:20	10/20/14 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**17**		17	6.8	ug/Kg	☼	10/17/14 15:00	10/20/14 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.30**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: VL-1(4-8)-101314
Date Collected: 10/13/14 11:10
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-14
Matrix: Solid
Percent Solids: 77.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	29		6.5	2.8	ug/Kg	☼		10/16/14 18:13	1
Benzene	<6.5		6.5	0.89	ug/Kg	☼		10/16/14 18:13	1
Bromodichloromethane	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 18:13	1
Bromoform	<6.5		6.5	1.5	ug/Kg	☼		10/16/14 18:13	1
Bromomethane	<6.5		6.5	2.0	ug/Kg	☼		10/16/14 18:13	1
Carbon disulfide	<6.5		6.5	0.97	ug/Kg	☼		10/16/14 18:13	1
Carbon tetrachloride	<6.5		6.5	1.2	ug/Kg	☼		10/16/14 18:13	1
Chlorobenzene	<6.5		6.5	0.66	ug/Kg	☼		10/16/14 18:13	1
Chloroethane	<6.5		6.5	1.8	ug/Kg	☼		10/16/14 18:13	1
Chloroform	<6.5		6.5	0.74	ug/Kg	☼		10/16/14 18:13	1
Chloromethane	<6.5		6.5	1.4	ug/Kg	☼		10/16/14 18:13	1
cis-1,2-Dichloroethene	<6.5		6.5	0.92	ug/Kg	☼		10/16/14 18:13	1
cis-1,3-Dichloropropene	<6.5		6.5	0.85	ug/Kg	☼		10/16/14 18:13	1
Dibromochloromethane	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 18:13	1
1,1-Dichloroethane	<6.5		6.5	1.0	ug/Kg	☼		10/16/14 18:13	1
1,2-Dichloroethane	<6.5		6.5	0.96	ug/Kg	☼		10/16/14 18:13	1
1,1-Dichloroethene	<6.5		6.5	1.0	ug/Kg	☼		10/16/14 18:13	1
1,2-Dichloropropane	<6.5		6.5	0.98	ug/Kg	☼		10/16/14 18:13	1
1,3-Dichloropropene, Total	<6.5		6.5	0.85	ug/Kg	☼		10/16/14 18:13	1
Ethylbenzene	<6.5		6.5	1.3	ug/Kg	☼		10/16/14 18:13	1
2-Hexanone	<6.5		6.5	1.9	ug/Kg	☼		10/16/14 18:13	1
Methylene Chloride	<6.5	*	6.5	1.7	ug/Kg	☼		10/16/14 18:13	1
Methyl Ethyl Ketone	<6.5		6.5	2.3	ug/Kg	☼		10/16/14 18:13	1
methyl isobutyl ketone	<6.5		6.5	1.7	ug/Kg	☼		10/16/14 18:13	1
Methyl tert-butyl ether	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 18:13	1
Styrene	<6.5		6.5	0.85	ug/Kg	☼		10/16/14 18:13	1
1,1,2,2-Tetrachloroethane	<6.5		6.5	1.3	ug/Kg	☼		10/16/14 18:13	1
Tetrachloroethene	<6.5		6.5	0.99	ug/Kg	☼		10/16/14 18:13	1
Toluene	<6.5		6.5	0.91	ug/Kg	☼		10/16/14 18:13	1
trans-1,2-Dichloroethene	<6.5		6.5	0.89	ug/Kg	☼		10/16/14 18:13	1
trans-1,3-Dichloropropene	<6.5		6.5	1.2	ug/Kg	☼		10/16/14 18:13	1
1,1,1-Trichloroethane	<6.5		6.5	0.97	ug/Kg	☼		10/16/14 18:13	1
1,1,2-Trichloroethane	<6.5		6.5	0.88	ug/Kg	☼		10/16/14 18:13	1
Trichloroethene	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 18:13	1
Vinyl chloride	<6.5		6.5	1.4	ug/Kg	☼		10/16/14 18:13	1
Xylenes, Total	<13		13	0.59	ug/Kg	☼		10/16/14 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*10/16/14 18:13*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*10/16/14 18:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*		*10/16/14 18:13*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*		*10/16/14 18:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	46	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
1,2-Dichlorobenzene	<210		210	51	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
1,3-Dichlorobenzene	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
1,4-Dichlorobenzene	<210		210	54	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2,2'-oxybis[1-chloropropane]	<210		210	49	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-1(4-8)-101314
Date Collected: 10/13/14 11:10
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-14
Matrix: Solid
Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420	97	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2,4,6-Trichlorophenol	<420		420	150	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2,4-Dichlorophenol	<420		420	100	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2,4-Dimethylphenol	<420		420	160	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2,4-Dinitrophenol	<860		860	750	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2,4-Dinitrotoluene	<210		210	67	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2,6-Dinitrotoluene	<210		210	83	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2-Chlorophenol	<210		210	72	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2-Methylnaphthalene	<42		42	7.8	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2-Methylphenol	<210		210	68	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2-Nitroaniline	<210		210	57	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
2-Nitrophenol	<420		420	100	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
3 & 4 Methylphenol	<210		210	71	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
3,3'-Dichlorobenzidine	<210	*	210	59	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
3-Nitroaniline	<420		420	130	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
4,6-Dinitro-2-methylphenol	<420		420	340	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
4-Bromophenyl phenyl ether	<210		210	56	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
4-Chloro-3-methylphenol	<420		420	140	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
4-Chloroaniline	<860		860	200	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
4-Chlorophenyl phenyl ether	<210		210	50	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
4-Nitroaniline	<420	*	420	180	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
4-Nitrophenol	<860		860	400	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Acenaphthene	<42		42	7.6	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Acenaphthylene	<42		42	5.6	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Anthracene	<42		42	7.1	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Benzo[a]anthracene	<42		42	5.7	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Benzo[a]pyrene	<42		42	8.2	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Benzo[b]fluoranthene	<42		42	9.2	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Benzo[g,h,i]perylene	<42		42	14	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Benzo[k]fluoranthene	<42		42	13	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Bis(2-chloroethoxy)methane	<210		210	43	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Bis(2-chloroethyl)ether	<210		210	64	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Bis(2-ethylhexyl) phthalate	<210		210	78	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Butyl benzyl phthalate	<210		210	81	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Carbazole	<210	*	210	110	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Chrysene	<42		42	12	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Dibenz(a,h)anthracene	<42		42	8.2	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Dibenzofuran	<210		210	50	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Diethyl phthalate	<210		210	72	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Dimethyl phthalate	<210		210	55	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Di-n-butyl phthalate	<210		210	65	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Di-n-octyl phthalate	<210		210	69	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Fluoranthene	<42		42	7.9	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Fluorene	<42		42	6.0	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Hexachlorobenzene	<86		86	9.8	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Hexachlorobutadiene	<210		210	67	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Hexachlorocyclopentadiene	<860		860	240	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Hexachloroethane	<210		210	65	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: VL-1(4-8)-101314
Date Collected: 10/13/14 11:10
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-14
Matrix: Solid
Percent Solids: 77.2

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	<42		42	11	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Isophorone	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Naphthalene	<42		42	6.5	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Nitrobenzene	<42		42	11	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
N-Nitrosodi-n-propylamine	<210		210	52	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
N-Nitrosodiphenylamine	<210		210	50	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Pentachlorophenol	<860		860	680	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Phenanthrene	<42		42	5.9	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Phenol	<210		210	94	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1
Pyrene	<42		42	8.4	ug/Kg	☼	10/16/14 07:28	10/23/14 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*35 - 137*	*10/16/14 07:28*	*10/23/14 15:23*	*1*
2-Fluorobiphenyl	*34*		*25 - 119*	*10/16/14 07:28*	*10/23/14 15:23*	*1*
2-Fluorophenol	*48*		*25 - 110*	*10/16/14 07:28*	*10/23/14 15:23*	*1*
Nitrobenzene-d5	*41*		*25 - 115*	*10/16/14 07:28*	*10/23/14 15:23*	*1*
Phenol-d5	*36*		*31 - 110*	*10/16/14 07:28*	*10/23/14 15:23*	*1*
Terphenyl-d14	*70*		*36 - 134*	*10/16/14 07:28*	*10/23/14 15:23*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/18/14 09:00	10/28/14 03:18	1
Barium	**0.13**	**J**	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:18	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:18	1
Cobalt	**0.028**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:18	1
Copper	**0.014**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:18	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:18	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 03:18	1
Manganese	**2.9**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:18	1
Nickel	**0.035**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:18	1
Selenium	<0.050		0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:18	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:18	1
Zinc	**0.020**	**J**	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:18	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		10/17/14 09:30	10/27/14 18:39	1
Barium	**0.13**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:39	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:39	1
Chromium	**0.046**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:39	1
Cobalt	**0.018**	**J**	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:39	1
Copper	**0.070**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:39	1
Iron	**46**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:39	1
Lead	**0.033**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:39	1
Manganese	**0.63**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:39	1
Nickel	**0.054**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:39	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:39	1

Client Sample ID: VL-1(4-8)-101314
Date Collected: 10/13/14 11:10
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:39	1
Zinc	**0.12**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:39	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.52	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Arsenic	**6.8**		0.65	0.13	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Barium	**45**		0.65	0.069	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Beryllium	**0.70**		0.26	0.052	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Cadmium	<0.13		0.13	0.016	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Calcium	**4600**		13	3.5	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Chromium	**19**	**B**	0.65	0.075	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Cobalt	**8.3**		0.32	0.065	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Copper	**33**		0.65	0.13	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Iron	**21000**		13	5.3	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Lead	**16**		0.32	0.096	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Magnesium	**5800**		6.5	1.3	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Manganese	**200**		0.65	0.13	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Nickel	**25**		0.65	0.13	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Potassium	**2500**		32	1.9	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Selenium	<0.65		0.65	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Sodium	**350**		65	8.6	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Thallium	**2.0**		0.65	0.27	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Vanadium	**21**		0.32	0.048	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	1
Zinc	**59**	**B**	1.3	0.26	mg/Kg	☼	10/23/14 10:30	10/27/14 03:33	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		10/20/14 12:30	10/21/14 10:47	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		10/17/14 12:20	10/20/14 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**37**		21	8.0	ug/Kg	☼	10/17/14 15:00	10/20/14 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.16**		0.200	0.200	SU			10/22/14 17:14	1

Qualifiers

GC/MS 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.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds 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.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the 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.
L	A negative instrument reading had an absolute value greater than the reporting limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control 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 - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

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	04-30-15

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

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

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-85946 COC

(optional)

Report To
Contact: S. Balaswamy Kumar
Company: Weston Solutions
Address: 300 Plaza Circle, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax: 224-864-7230
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-85946
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 21/2.3

Client	Client Project #
Weston	
Project Name: IDOT-089	
Project Location/State: Willowbrook / IL	Lab Project #
Sampler: T. Walls	Lab PM: D. Wright

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					
1		RL-7(0-4)-101314	10-13-14	0835	2	S		X	X	X	X	X					
2		RL-7(4-8)-101314		0840													
3		RL-7(4-8)-101314D		0840													
4		RL-6(0-4)-101314		0855													
5		RL-6(4-8)-101314		0900													
6		RL-5(0-4)-101314		0915													
7		RL-5(4-8)-101314		0920													
8		RL-4(0-4)-101314		0935													
9		RL-4(4-8)-101314		0940													
10		VL-2(0-4)-101314	10-13-14	1045	2	S		X	X	X	X	X					

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

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Timothy A. Walls	Weston	10-13-14	1530	[illegible]	TA	10/13/14	1535
[illegible]	TA	10/13/14	1627	[illegible]	TA-CAL	10/14/14	0710

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: 300 Plaza Circle, Ste 202
Address: Munderlein, IL 60060
Phone: 224-864-7250
Fax: 224-864-7236
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-85946

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 2.1/2.3

Client	Client Project #
Weston	
Project Name: IDOT-069	
Project Location/State: Willowbrook / IL	Lab Project #
Sampler: T. Walls	Lab PM: D. Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7				
							Parameter	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PCB				
11		VL-2 (4-8)-101314	10-13-14	1050	2	S		X	X	X	X	X				
12		VL-1 (0-4)-101314		1105												
13		VL-1 (0-4)-101314D		1105												
14		VL-1 (4-8)-101314		1110												
15		CBW-4 (0-4)-101314		1130												
16		CBW-4 (4-8)-101314		1135												
17		CBW-3 (0-4)-101314		1150												
18		CBW-3 (4-8)-101314		1155												
19		CBW-2 (0-4)-101314		1210												
20		CBW-2 (4-8)-101314	10-13-14	1215	2	S		X	X	X	X	X				

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

Comments

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

Sample Disposal
[ ] Return to Client [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
Timothy A. Walls	Weston	10-13-14	1530	P. Neal	TA	10/13/14	1535
P. Neal	TA	10/13/14	1627	Sherri Scott	TA-CAL	10/14/14	0710
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 344: IL Rte 83 (Kingery Hwy) at 63rd St Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
6262 S. Kingery Highway

City: Willowbrook State: IL Zip Code: _____

County: DuPage Township: _____

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

Latitude: 41.774617310 (Decimal Degrees) Longitude: -87.946953688 (-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 344: IL Rte 83 (Kingery Hwy) at 63rd St

Latitude: 41.774617310 Longitude: -87.946953688

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 CBW-1, CBW-3, AND CBW-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 1983V-3. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-85946-1 AND 500-85947-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/20/14
Date:

LICENSED PROFESSIONAL GEOLOGIST
KURT T. FISCHER
196-000881
ILLINOIS

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

Summary Table of ISGS Site No. 1983V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	CBW-1(0-4)-101314	CBW-1(4-8)-101314	CBW-1(4-8)-101314D	CBW-3(0-4)-101314	CBW-3(4-8)-101314	CBW-4(0-4)-101314	CBW-4(4-8)-101314	Soil Reference Concentrations[A]
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	CBW-1	CBW-1	CBW-1	CBW-3	CBW-3	CBW-4	CBW-4	
Depth	0 - 4	4 - 8	4 - 8	0 - 4	4 - 8	0 - 4	4 - 8	
ISGS Site Number	1983V-3	1983V-3	1983V-3	1983V-3	1983V-3	1983V-3	1983V-3	
Parameter								
Laboratory pH	8.87	8.15	8.25	7.9	7.36	8.42	7.95	<6.25, >9.0
VOCs (ug/kg)								
Acetone	ND	22	26	ND	86	ND	27	25000
Methyl ethyl ketone	ND	ND	ND	ND	10	ND	ND	---
SVOCs (ug/kg)								
2-Methylnaphthalene	ND	ND	ND	12 J	ND	ND	ND	---
Benzo(a)anthracene	20 J	ND	12 J	29 J	ND	ND	ND	900 / 1100 / 1800
Benzo(a)pyrene	22 J	ND	14 J	27 J	ND	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	36 J	ND	24 J	41	ND	ND	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	20 J	ND	ND	21 J	ND	ND	ND	---
Benzo(k)fluoranthene	14 J	ND	ND	11 J	ND	ND	ND	9000
Chrysene	27 J	ND	17 J	37 J	ND	ND	ND	88000
Fluoranthene	31 J	ND	18 J	58	ND	ND	ND	3100000
Indeno(1,2,3-cd)pyrene	17 J	ND	10 J	18 J	ND	ND	ND	900 / 900 / 1600
Phenanthrene	16 J	ND	10 J	34 J	ND	ND	ND	---
Pyrene	37 J	ND	26 J	55	ND	ND	ND	2300000
Total Metals (mg/kg)								
Antimony, Total	ND	0.47 J	ND	ND	ND	ND	ND	5
Arsenic, Total	6.6	11	8.8	7.9 J	8.1 J	0.97 J	12 J	11.3/13.0
Barium, Total	36	62	68	48	73	4.2	50	1500
Beryllium, Total	0.52	0.78	0.67	0.64 J	0.72 J	0.13 J	0.65 J	22
Cadmium, Total	0.17	ND	0.11	0.16 J-	0.058 J	0.05 J	0.11 J-	5.2
Calcium, Total	55000	7600 J	22000 J	26000 J	4800 J	120000 J	16000 J	---
Chromium, Total	14	21	19	16 J-	19 J-	3.3 J-	16 J-	21
Cobalt, Total	9.7	13	10	9.1 J	11 J	1.3 J	13 J	20
Copper, Total	22	31	31	23 J	26 J	3.3 J	30 J	2900
Iron, Total	16000	26000	22000	17000 J-	19000 J-	3000 J-	21000 J-	15000/15900
Lead, Total	19 B	19 J	200 J	25 J	18 J	1 J	18 J	107
Magnesium, Total	36000	8000 J	15000 J	16000 J	5000 J	68000 J	12000 J	325000
Manganese, Total	340	380	430	290 J+	240 J+	160 J+	270 J+	630/636
Mercury, Total	ND	ND	ND	0.031 J	0.04 J	ND	0.058 J	0.89
Nickel, Total	22	33	26	22 J	26 J	2.6 J	34 J	100
Potassium, Total	2900	2500	2500	2800 J+	2500 J+	850 J+	2400 J+	---
Selenium, Total	ND	ND	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	ND	ND	4.4
Sodium, Total	860	780	970	570	230	220	330	---
Thallium, Total	1.1	1.5	1.5	1.4 J-	1.5 J-	0.37 J	1.4 J-	2.6
Vanadium, Total	17	25	22	20	26	4.5	22	550
Zinc, Total	41 B	55 B	72 B	44 J	49 J	4.9 J	51 J	5100

Summary Table of ISGS Site No. 1983V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	CBW-1(0-4)-101314	CBW-1(4-8)-101314	CBW-1(4-8)-101314D	CBW-3(0-4)-101314	CBW-3(4-8)-101314	CBW-4(0-4)-101314	CBW-4(4-8)-101314	Soil Reference Concentrations[A]
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	CBW-1	CBW-1	CBW-1	CBW-3	CBW-3	CBW-4	CBW-4	
Depth	0 - 4	4 - 8	4 - 8	0 - 4	4 - 8	0 - 4	4 - 8	
ISGS Site Number	1983V-3	1983V-3	1983V-3	1983V-3	1983V-3	1983V-3	1983V-3	
Parameter								
TCLP Metals (mg/l)								
Arsenic, TCLP	ND	ND	ND	ND	0.013 J	ND	0.011 J	0.05
Barium, TCLP	0.37 J	0.37 J	0.38 J	0.47 J	0.54	0.077 J	0.55	2
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.005
Cobalt, TCLP	ND	0.027	0.029	0.032	0.04	0.019 J	0.042	1
Copper, TCLP	ND	ND	ND	0.046	0.019 J	0.013 J	0.023 J	0.65
Iron, TCLP	ND	ND	ND	ND	0.22	0.22	ND	5
Lead, TCLP	ND	ND	ND	ND	0.013	ND	ND	0.0075
Manganese, TCLP	0.13	6.1	5.5	3.1	8.8	0.91	5.3	0.15
Nickel, TCLP	ND	0.025	0.021 J	0.031	0.038	0.019 J	0.05	0.1
SPLP Metals (mg/l)								
Arsenic, SPLP	0.12	0.074	0.069	0.031 J	0.016 J	ND	0.019 J	0.05
Barium, SPLP	0.68	0.5	0.38 J	0.22 J	0.14 J	ND	0.18 J	2
Beryllium, SPLP	0.0095	0.0068	0.0053	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.22	0.14	0.12	0.059	0.028	ND	0.036	0.1
Cobalt, SPLP	0.076	0.075	0.055	0.028	0.014 J	ND	0.015 J	1
Copper, SPLP	0.32	0.24	0.19	0.1	0.053	ND	0.061	0.65
Iron, SPLP	250 J+	180 J+	150 J+	63 J+	29 J+	ND	33 J+	5
Lead, SPLP	0.2	0.12	0.16	0.07	0.026	ND	0.043	0.0075
Manganese, SPLP	1.1	1.6	1	0.5	0.84	ND	0.25	0.15
Mercury, SPLP	0.00027	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.28	0.26	0.17	0.075	0.038	ND	0.043	0.1
Selenium, TCLP	ND	0.021 J	ND	0.021 J	0.024 J	0.02 J	0.023 J	0.05
Zinc, SPLP	0.62 B	0.34 B	0.35 B	0.21	0.082 J	0.023 J	0.097 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.

J- - Estimated concentration, biased low.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-85946-1
Client Project/Site: IDOT - Willowbrook - WO 089

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

Attn: Mr. S. Babusukumar

Authorized for release by:
10/28/2014 4:40:38 PM

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

Client Sample ID: CBW-4(0-4)-101314
Date Collected: 10/13/14 11:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-15
Matrix: Solid
Percent Solids: 92.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.4		5.4	2.3	ug/Kg	☼		10/16/14 18:36	1
Benzene	<5.4		5.4	0.74	ug/Kg	☼		10/16/14 18:36	1
Bromodichloromethane	<5.4		5.4	0.93	ug/Kg	☼		10/16/14 18:36	1
Bromoform	<5.4		5.4	1.2	ug/Kg	☼		10/16/14 18:36	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	☼		10/16/14 18:36	1
Carbon disulfide	<5.4		5.4	0.80	ug/Kg	☼		10/16/14 18:36	1
Carbon tetrachloride	<5.4		5.4	0.98	ug/Kg	☼		10/16/14 18:36	1
Chlorobenzene	<5.4		5.4	0.55	ug/Kg	☼		10/16/14 18:36	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	☼		10/16/14 18:36	1
Chloroform	<5.4		5.4	0.62	ug/Kg	☼		10/16/14 18:36	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	☼		10/16/14 18:36	1
cis-1,2-Dichloroethene	<5.4		5.4	0.76	ug/Kg	☼		10/16/14 18:36	1
cis-1,3-Dichloropropene	<5.4		5.4	0.71	ug/Kg	☼		10/16/14 18:36	1
Dibromochloromethane	<5.4		5.4	0.94	ug/Kg	☼		10/16/14 18:36	1
1,1-Dichloroethane	<5.4		5.4	0.85	ug/Kg	☼		10/16/14 18:36	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		10/16/14 18:36	1
1,1-Dichloroethene	<5.4		5.4	0.87	ug/Kg	☼		10/16/14 18:36	1
1,2-Dichloropropane	<5.4		5.4	0.82	ug/Kg	☼		10/16/14 18:36	1
1,3-Dichloropropene, Total	<5.4		5.4	0.71	ug/Kg	☼		10/16/14 18:36	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	☼		10/16/14 18:36	1
2-Hexanone	<5.4		5.4	1.5	ug/Kg	☼		10/16/14 18:36	1
Methylene Chloride	<5.4	*	5.4	1.5	ug/Kg	☼		10/16/14 18:36	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		10/16/14 18:36	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	☼		10/16/14 18:36	1
Methyl tert-butyl ether	<5.4		5.4	0.89	ug/Kg	☼		10/16/14 18:36	1
Styrene	<5.4		5.4	0.71	ug/Kg	☼		10/16/14 18:36	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	☼		10/16/14 18:36	1
Tetrachloroethene	<5.4		5.4	0.82	ug/Kg	☼		10/16/14 18:36	1
Toluene	<5.4		5.4	0.75	ug/Kg	☼		10/16/14 18:36	1
trans-1,2-Dichloroethene	<5.4		5.4	0.74	ug/Kg	☼		10/16/14 18:36	1
trans-1,3-Dichloropropene	<5.4		5.4	0.96	ug/Kg	☼		10/16/14 18:36	1
1,1,1-Trichloroethane	<5.4		5.4	0.80	ug/Kg	☼		10/16/14 18:36	1
1,1,2-Trichloroethane	<5.4		5.4	0.73	ug/Kg	☼		10/16/14 18:36	1
Trichloroethene	<5.4		5.4	0.89	ug/Kg	☼		10/16/14 18:36	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	☼		10/16/14 18:36	1
Xylenes, Total	<11		11	0.49	ug/Kg	☼		10/16/14 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*10/16/14 18:36*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/16/14 18:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 134*		*10/16/14 18:36*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*10/16/14 18:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	36	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
1,2-Dichlorobenzene	<170		170	40	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
1,3-Dichlorobenzene	<170		170	38	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
1,4-Dichlorobenzene	<170		170	43	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2,2'-oxybis[1-chloropropane]	<170		170	39	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: CBW-4(0-4)-101314
Date Collected: 10/13/14 11:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-15
Matrix: Solid
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<330		330	77	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2,4,6-Trichlorophenol	<330		330	120	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2,4-Dichlorophenol	<330		330	80	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2,4-Dimethylphenol	<330		330	130	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2,4-Dinitrophenol	<680		680	590	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2,4-Dinitrotoluene	<170		170	54	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2,6-Dinitrotoluene	<170		170	66	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2-Chloronaphthalene	<170		170	37	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2-Chlorophenol	<170		170	58	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2-Methylnaphthalene	<33		33	6.2	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2-Methylphenol	<170		170	54	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2-Nitroaniline	<170		170	45	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
2-Nitrophenol	<330		330	80	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
3 & 4 Methylphenol	<170		170	56	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
3,3'-Dichlorobenzidine	<170	*	170	47	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
3-Nitroaniline	<330		330	100	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
4,6-Dinitro-2-methylphenol	<330		330	270	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
4-Bromophenyl phenyl ether	<170		170	44	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
4-Chloro-3-methylphenol	<330		330	110	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
4-Chloroaniline	<680		680	160	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
4-Chlorophenyl phenyl ether	<170		170	39	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
4-Nitroaniline	<330	*	330	140	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
4-Nitrophenol	<680		680	320	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Acenaphthene	<33		33	6.1	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Acenaphthylene	<33		33	4.4	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Anthracene	<33		33	5.6	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Benzo[a]anthracene	<33		33	4.5	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Benzo[a]pyrene	<33		33	6.5	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Benzo[b]fluoranthene	<33		33	7.3	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Benzo[g,h,i]perylene	<33		33	11	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Benzo[k]fluoranthene	<33		33	9.9	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Bis(2-chloroethoxy)methane	<170		170	34	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Bis(2-ethylhexyl) phthalate	<170		170	62	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Butyl benzyl phthalate	<170		170	64	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Carbazole	<170	*	170	87	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Chrysene	<33		33	9.2	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Dibenz(a,h)anthracene	<33		33	6.5	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Dibenzofuran	<170		170	39	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Dimethyl phthalate	<170		170	44	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Di-n-butyl phthalate	<170		170	51	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Di-n-octyl phthalate	<170		170	55	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Fluoranthene	<33		33	6.3	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Fluorene	<33		33	4.7	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Hexachlorobenzene	<68		68	7.8	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Hexachlorobutadiene	<170		170	53	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Hexachlorocyclopentadiene	<680		680	190	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Hexachloroethane	<170		170	51	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: CBW-4(0-4)-101314
Date Collected: 10/13/14 11:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-15
Matrix: Solid
Percent Solids: 92.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<33		33	8.7	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Isophorone	<170		170	38	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Naphthalene	<33		33	5.2	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Nitrobenzene	<33		33	8.4	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
N-Nitrosodi-n-propylamine	<170		170	41	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
N-Nitrosodiphenylamine	<170		170	40	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Pentachlorophenol	<680		680	540	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Phenanthrene	<33		33	4.7	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Phenol	<170		170	75	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1
Pyrene	<33		33	6.7	ug/Kg	☼	10/16/14 07:28	10/21/14 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*48*		*35 - 137*	*10/16/14 07:28*	*10/21/14 03:41*	*1*
2-Fluorobiphenyl	*49*		*25 - 119*	*10/16/14 07:28*	*10/21/14 03:41*	*1*
2-Fluorophenol	*37*		*25 - 110*	*10/16/14 07:28*	*10/21/14 03:41*	*1*
Nitrobenzene-d5	*53*		*25 - 115*	*10/16/14 07:28*	*10/21/14 03:41*	*1*
Phenol-d5	*34*		*31 - 110*	*10/16/14 07:28*	*10/21/14 03:41*	*1*
Terphenyl-d14	*69*		*36 - 134*	*10/16/14 07:28*	*10/21/14 03:41*	*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		10/18/14 09:00	10/28/14 03:23	1
Barium	**0.077**	**J**	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:23	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:23	1
Cobalt	**0.019**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:23	1
Copper	**0.013**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:23	1
Iron	**0.22**		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:23	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 03:23	1
Manganese	**0.91**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:23	1
Nickel	**0.019**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:23	1
Selenium	**0.020**	**J**	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:23	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:23	1
Zinc	**0.026**	**J**	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/17/14 09:30	10/27/14 18:46	1
Barium	<0.50		0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:46	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:46	1
Chromium	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:46	1
Cobalt	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:46	1
Copper	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:46	1
Iron	<0.20		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:46	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:46	1
Manganese	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:46	1
Nickel	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:46	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:46	1

Client Sample ID: CBW-4(0-4)-101314
Date Collected: 10/13/14 11:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:46	1
Zinc	**0.023**	**J**	0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:46	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	0.42	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Arsenic	**0.97**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Barium	**4.2**		0.52	0.056	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Beryllium	**0.13**	**J**	0.21	0.042	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Cadmium	**0.050**	**J**	0.10	0.013	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Calcium	**120000**		100	28	mg/Kg	☼	10/23/14 10:30	10/28/14 00:16	10
Chromium	**3.3**	**B**	0.52	0.060	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Cobalt	**1.3**		0.26	0.052	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Copper	**3.3**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Iron	**3000**		10	4.3	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Lead	**1.0**		0.26	0.078	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Magnesium	**68000**		52	11	mg/Kg	☼	10/23/14 10:30	10/28/14 00:16	10
Manganese	**160**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Nickel	**2.6**		0.52	0.10	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Potassium	**850**		26	1.6	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Sodium	**220**		52	7.0	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Thallium	**0.37**	**J**	0.52	0.22	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Vanadium	**4.5**		0.26	0.039	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1
Zinc	**4.9**	**B**	1.0	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 03:54	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:49	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		10/17/14 12:20	10/20/14 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<17		17	6.5	ug/Kg	☼	10/17/14 15:00	10/20/14 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.42**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: CBW-4(4-8)-101314
Date Collected: 10/13/14 11:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-16
Matrix: Solid
Percent Solids: 80.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	27		6.2	2.7	ug/Kg	☼		10/16/14 18:59	1
Benzene	<6.2		6.2	0.86	ug/Kg	☼		10/16/14 18:59	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 18:59	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/16/14 18:59	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/16/14 18:59	1
Carbon disulfide	<6.2		6.2	0.93	ug/Kg	☼		10/16/14 18:59	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 18:59	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/16/14 18:59	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		10/16/14 18:59	1
Chloroform	<6.2		6.2	0.72	ug/Kg	☼		10/16/14 18:59	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 18:59	1
cis-1,2-Dichloroethene	<6.2		6.2	0.88	ug/Kg	☼		10/16/14 18:59	1
cis-1,3-Dichloropropene	<6.2		6.2	0.82	ug/Kg	☼		10/16/14 18:59	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 18:59	1
1,1-Dichloroethane	<6.2		6.2	0.99	ug/Kg	☼		10/16/14 18:59	1
1,2-Dichloroethane	<6.2		6.2	0.93	ug/Kg	☼		10/16/14 18:59	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 18:59	1
1,2-Dichloropropane	<6.2		6.2	0.95	ug/Kg	☼		10/16/14 18:59	1
1,3-Dichloropropene, Total	<6.2		6.2	0.82	ug/Kg	☼		10/16/14 18:59	1
Ethylbenzene	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 18:59	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/16/14 18:59	1
Methylene Chloride	<6.2	*	6.2	1.7	ug/Kg	☼		10/16/14 18:59	1
Methyl Ethyl Ketone	<6.2		6.2	2.3	ug/Kg	☼		10/16/14 18:59	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/16/14 18:59	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 18:59	1
Styrene	<6.2		6.2	0.82	ug/Kg	☼		10/16/14 18:59	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 18:59	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		10/16/14 18:59	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		10/16/14 18:59	1
trans-1,2-Dichloroethene	<6.2		6.2	0.86	ug/Kg	☼		10/16/14 18:59	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 18:59	1
1,1,1-Trichloroethane	<6.2		6.2	0.93	ug/Kg	☼		10/16/14 18:59	1
1,1,2-Trichloroethane	<6.2		6.2	0.85	ug/Kg	☼		10/16/14 18:59	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 18:59	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 18:59	1
Xylenes, Total	<12		12	0.57	ug/Kg	☼		10/16/14 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*		*10/16/14 18:59*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*10/16/14 18:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*		*10/16/14 18:59*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*		*10/16/14 18:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	43	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: CBW-4(4-8)-101314
Date Collected: 10/13/14 11:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-16
Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	91	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
2-Nitrophenol	<390		390	94	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
3,3'-Dichlorobenzidine	<200	*	200	56	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
4,6-Dinitro-2-methylphenol	<390		390	320	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
4-Chloro-3-methylphenol	<390		390	140	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
4-Nitroaniline	<390	*	390	170	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Benzo[a]pyrene	<39		39	7.7	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Benzo[b]fluoranthene	<39		39	8.6	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Carbazole	<200	*	200	100	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Chrysene	<39		39	11	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Dibenz(a,h)anthracene	<39		39	7.7	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Dibenzofuran	<200		200	47	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Fluoranthene	<39		39	7.4	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Fluorene	<39		39	5.6	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: CBW-4(4-8)-101314
Date Collected: 10/13/14 11:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-16
Matrix: Solid
Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Isophorone	<200		200	45	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Naphthalene	<39		39	6.1	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Phenol	<200		200	88	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1
Pyrene	<39		39	7.9	ug/Kg	☼	10/16/14 07:28	10/21/14 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*35 - 137*	*10/16/14 07:28*	*10/21/14 04:01*	*1*
2-Fluorobiphenyl	*55*		*25 - 119*	*10/16/14 07:28*	*10/21/14 04:01*	*1*
2-Fluorophenol	*46*		*25 - 110*	*10/16/14 07:28*	*10/21/14 04:01*	*1*
Nitrobenzene-d5	*68*		*25 - 115*	*10/16/14 07:28*	*10/21/14 04:01*	*1*
Phenol-d5	*51*		*31 - 110*	*10/16/14 07:28*	*10/21/14 04:01*	*1*
Terphenyl-d14	*96*		*36 - 134*	*10/16/14 07:28*	*10/21/14 04:01*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**	**J**	0.050	0.010	mg/L		10/18/14 09:00	10/28/14 03:28	1
Barium	**0.55**		0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:28	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:28	1
Cobalt	**0.042**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:28	1
Copper	**0.023**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:28	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:28	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 03:28	1
Manganese	**5.3**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:28	1
Nickel	**0.050**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:28	1
Selenium	**0.023**	**J**	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:28	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:28	1
Zinc	**0.15**		0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:28	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		10/17/14 09:30	10/27/14 19:07	1
Barium	**0.18**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 19:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 19:07	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 19:07	1
Chromium	**0.036**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:07	1
Cobalt	**0.015**	**J**	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:07	1
Copper	**0.061**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:07	1
Iron	**33**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 19:07	1
Lead	**0.043**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 19:07	1
Manganese	**0.25**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:07	1
Nickel	**0.043**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:07	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 19:07	1

Client Sample ID: CBW-4(4-8)-101314
Date Collected: 10/13/14 11:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:07	1
Zinc	**0.097**	**J**	0.10	0.020	mg/L		10/17/14 09:30	10/27/14 19:07	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Arsenic	**12**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Barium	**50**		0.57	0.061	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Beryllium	**0.65**		0.23	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Cadmium	**0.11**		0.11	0.014	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Calcium	**16000**		11	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Chromium	**16**	**B**	0.57	0.066	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Cobalt	**13**		0.29	0.057	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Copper	**30**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Iron	**21000**		11	4.7	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Lead	**18**		0.29	0.085	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Magnesium	**12000**		5.7	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Manganese	**270**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Nickel	**34**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Potassium	**2400**		29	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Sodium	**330**		57	7.6	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Thallium	**1.4**		0.57	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Vanadium	**22**		0.29	0.042	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	1
Zinc	**51**	**B**	1.1	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 04:01	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		10/20/14 12:30	10/21/14 10:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**58**		20	8.0	ug/Kg	☼	10/17/14 15:00	10/20/14 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.95**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: CBW-3(0-4)-101314
Date Collected: 10/13/14 11:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-17
Matrix: Solid
Percent Solids: 87.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	☼		10/16/14 19:22	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		10/16/14 19:22	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		10/16/14 19:22	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		10/16/14 19:22	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		10/16/14 19:22	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		10/16/14 19:22	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		10/16/14 19:22	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		10/16/14 19:22	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		10/16/14 19:22	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		10/16/14 19:22	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		10/16/14 19:22	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		10/16/14 19:22	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		10/16/14 19:22	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		10/16/14 19:22	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		10/16/14 19:22	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		10/16/14 19:22	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		10/16/14 19:22	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		10/16/14 19:22	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		10/16/14 19:22	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		10/16/14 19:22	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		10/16/14 19:22	1
Methylene Chloride	<5.7	*	5.7	1.5	ug/Kg	☼		10/16/14 19:22	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		10/16/14 19:22	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		10/16/14 19:22	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		10/16/14 19:22	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		10/16/14 19:22	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		10/16/14 19:22	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		10/16/14 19:22	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		10/16/14 19:22	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		10/16/14 19:22	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		10/16/14 19:22	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		10/16/14 19:22	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		10/16/14 19:22	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		10/16/14 19:22	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		10/16/14 19:22	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		10/16/14 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*10/16/14 19:22*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*10/16/14 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 134*		*10/16/14 19:22*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*		*10/16/14 19:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: CBW-3(0-4)-101314
Date Collected: 10/13/14 11:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-17
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	<380		380	87	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2,4-Dinitrophenol	<770		770	670	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2-Methylnaphthalene	**12**	**J**	38	7.0	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
4-Chloroaniline	<770		770	180	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
4-Nitroaniline	<380	*	380	160	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
4-Nitrophenol	<770		770	360	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Anthracene	<38		38	6.4	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Benzo[a]anthracene	**29**	**J**	38	5.1	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Benzo[a]pyrene	**27**	**J**	38	7.4	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Benzo[b]fluoranthene	**41**		38	8.2	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Benzo[g,h,i]perylene	**21**	**J**	38	12	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Benzo[k]fluoranthene	**11**	**J**	38	11	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Carbazole	<190	*	190	98	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Chrysene	**37**	**J**	38	10	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Dibenz(a,h)anthracene	<38		38	7.3	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Fluoranthene	**58**		38	7.1	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Fluorene	<38		38	5.3	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Hexachlorobenzene	<77		77	8.8	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Hexachlorocyclopentadiene	<770		770	220	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Hexachloroethane	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: CBW-3(0-4)-101314
Date Collected: 10/13/14 11:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-17
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	18	J	38	9.9	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Isophorone	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Naphthalene	<38		38	5.8	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Pentachlorophenol	<770		770	610	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Phenanthrene	34	J	38	5.3	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Phenol	<190		190	84	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1
Pyrene	55		38	7.6	ug/Kg	☼	10/16/14 07:28	10/23/14 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*35 - 137*	*10/16/14 07:28*	*10/23/14 20:14*	*1*
2-Fluorobiphenyl	*58*		*25 - 119*	*10/16/14 07:28*	*10/23/14 20:14*	*1*
2-Fluorophenol	*65*		*25 - 110*	*10/16/14 07:28*	*10/23/14 20:14*	*1*
Nitrobenzene-d5	*55*		*25 - 115*	*10/16/14 07:28*	*10/23/14 20:14*	*1*
Phenol-d5	*52*		*31 - 110*	*10/16/14 07:28*	*10/23/14 20:14*	*1*
Terphenyl-d14	*89*		*36 - 134*	*10/16/14 07:28*	*10/23/14 20:14*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/18/14 09:00	10/28/14 03:33	1
Barium	0.47	J	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:33	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:33	1
Cobalt	0.032		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:33	1
Copper	0.046		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:33	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:33	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 03:33	1
Manganese	3.1		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:33	1
Nickel	0.031		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:33	1
Selenium	0.021	J	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:33	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:33	1
Zinc	0.10		0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031	J	0.050	0.010	mg/L		10/17/14 09:30	10/27/14 19:13	1
Barium	0.22	J	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 19:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 19:13	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 19:13	1
Chromium	0.059		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:13	1
Cobalt	0.028		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:13	1
Copper	0.10		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:13	1
Iron	63		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 19:13	1
Lead	0.070		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 19:13	1
Manganese	0.50		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:13	1
Nickel	0.075		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:13	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 19:13	1

Client Sample ID: CBW-3(0-4)-101314
Date Collected: 10/13/14 11:50
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:13	1
Zinc	**0.21**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 19:13	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Arsenic	**7.9**		0.56	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Barium	**48**		0.56	0.060	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Beryllium	**0.64**		0.23	0.045	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Cadmium	**0.16**		0.11	0.014	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Calcium	**26000**		11	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Chromium	**16**	**B**	0.56	0.066	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Cobalt	**9.1**		0.28	0.056	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Copper	**23**		0.56	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Iron	**17000**		11	4.6	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Lead	**25**		0.28	0.084	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Magnesium	**16000**		5.6	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Manganese	**290**		0.56	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Nickel	**22**		0.56	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Potassium	**2800**		28	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Sodium	**570**		56	7.6	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Thallium	**1.4**		0.56	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Vanadium	**20**		0.28	0.042	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1
Zinc	**44**	**B**	1.1	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 04:07	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**31**		18	7.0	ug/Kg	☼	10/17/14 15:00	10/20/14 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.90**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: CBW-3(4-8)-101314
Date Collected: 10/13/14 11:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-18
Matrix: Solid
Percent Solids: 77.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**86**		6.5	2.8	ug/Kg	☼		10/16/14 19:45	1
Benzene	<6.5		6.5	0.89	ug/Kg	☼		10/16/14 19:45	1
Bromodichloromethane	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 19:45	1
Bromoform	<6.5		6.5	1.5	ug/Kg	☼		10/16/14 19:45	1
Bromomethane	<6.5		6.5	2.0	ug/Kg	☼		10/16/14 19:45	1
Carbon disulfide	<6.5		6.5	0.97	ug/Kg	☼		10/16/14 19:45	1
Carbon tetrachloride	<6.5		6.5	1.2	ug/Kg	☼		10/16/14 19:45	1
Chlorobenzene	<6.5		6.5	0.66	ug/Kg	☼		10/16/14 19:45	1
Chloroethane	<6.5		6.5	1.8	ug/Kg	☼		10/16/14 19:45	1
Chloroform	<6.5		6.5	0.74	ug/Kg	☼		10/16/14 19:45	1
Chloromethane	<6.5		6.5	1.4	ug/Kg	☼		10/16/14 19:45	1
cis-1,2-Dichloroethene	<6.5		6.5	0.91	ug/Kg	☼		10/16/14 19:45	1
cis-1,3-Dichloropropene	<6.5		6.5	0.85	ug/Kg	☼		10/16/14 19:45	1
Dibromochloromethane	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 19:45	1
1,1-Dichloroethane	<6.5		6.5	1.0	ug/Kg	☼		10/16/14 19:45	1
1,2-Dichloroethane	<6.5		6.5	0.96	ug/Kg	☼		10/16/14 19:45	1
1,1-Dichloroethene	<6.5		6.5	1.0	ug/Kg	☼		10/16/14 19:45	1
1,2-Dichloropropane	<6.5		6.5	0.98	ug/Kg	☼		10/16/14 19:45	1
1,3-Dichloropropene, Total	<6.5		6.5	0.85	ug/Kg	☼		10/16/14 19:45	1
Ethylbenzene	<6.5		6.5	1.3	ug/Kg	☼		10/16/14 19:45	1
2-Hexanone	<6.5		6.5	1.9	ug/Kg	☼		10/16/14 19:45	1
Methylene Chloride	<6.5	*	6.5	1.7	ug/Kg	☼		10/16/14 19:45	1
Methyl Ethyl Ketone	**10**		6.5	2.3	ug/Kg	☼		10/16/14 19:45	1
methyl isobutyl ketone	<6.5		6.5	1.7	ug/Kg	☼		10/16/14 19:45	1
Methyl tert-butyl ether	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 19:45	1
Styrene	<6.5		6.5	0.85	ug/Kg	☼		10/16/14 19:45	1
1,1,2,2-Tetrachloroethane	<6.5		6.5	1.3	ug/Kg	☼		10/16/14 19:45	1
Tetrachloroethene	<6.5		6.5	0.99	ug/Kg	☼		10/16/14 19:45	1
Toluene	<6.5		6.5	0.90	ug/Kg	☼		10/16/14 19:45	1
trans-1,2-Dichloroethene	<6.5		6.5	0.89	ug/Kg	☼		10/16/14 19:45	1
trans-1,3-Dichloropropene	<6.5		6.5	1.2	ug/Kg	☼		10/16/14 19:45	1
1,1,1-Trichloroethane	<6.5		6.5	0.97	ug/Kg	☼		10/16/14 19:45	1
1,1,2-Trichloroethane	<6.5		6.5	0.88	ug/Kg	☼		10/16/14 19:45	1
Trichloroethene	<6.5		6.5	1.1	ug/Kg	☼		10/16/14 19:45	1
Vinyl chloride	<6.5		6.5	1.4	ug/Kg	☼		10/16/14 19:45	1
Xylenes, Total	<13		13	0.59	ug/Kg	☼		10/16/14 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*		*10/16/14 19:45*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/16/14 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*		*10/16/14 19:45*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*		*10/16/14 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	<210		210	44	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: CBW-3(4-8)-101314
Date Collected: 10/13/14 11:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-18
Matrix: Solid
Percent Solids: 77.4

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	☼	10/16/14 07:28	10/21/14 04:43	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2,4-Dimethylphenol	<410		410	150	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2-Methylphenol	<210		210	65	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
2-Nitrophenol	<410		410	96	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
3,3'-Dichlorobenzidine	<210	*	210	57	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
4,6-Dinitro-2-methylphenol	<410		410	330	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
4-Nitroaniline	<410	*	410	170	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Acenaphthene	<41		41	7.3	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Anthracene	<41		41	6.8	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Benzo[a]anthracene	<41		41	5.5	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Benzo[a]pyrene	<41		41	7.9	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Benzo[b]fluoranthene	<41		41	8.8	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Benzo[g,h,i]perylene	<41		41	13	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Benzo[k]fluoranthene	<41		41	12	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Carbazole	<210	*	210	110	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Chrysene	<41		41	11	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Dibenz(a,h)anthracene	<41		41	7.9	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Dibenzofuran	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Fluoranthene	<41		41	7.6	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Fluorene	<41		41	5.7	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Hexachloroethane	<210		210	62	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1

Client Sample ID: CBW-3(4-8)-101314
Date Collected: 10/13/14 11:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-18
Matrix: Solid
Percent Solids: 77.4

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	<41		41	11	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Isophorone	<210		210	46	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Naphthalene	<41		41	6.3	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Nitrobenzene	<41		41	10	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Pentachlorophenol	<820		820	650	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Phenanthrene	<41		41	5.7	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Phenol	<210		210	91	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1
Pyrene	<41		41	8.1	ug/Kg	☼	10/16/14 07:28	10/21/14 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*35 - 137*	*10/16/14 07:28*	*10/21/14 04:43*	*1*
2-Fluorobiphenyl	*46*		*25 - 119*	*10/16/14 07:28*	*10/21/14 04:43*	*1*
2-Fluorophenol	*39*		*25 - 110*	*10/16/14 07:28*	*10/21/14 04:43*	*1*
Nitrobenzene-d5	*47*		*25 - 115*	*10/16/14 07:28*	*10/21/14 04:43*	*1*
Phenol-d5	*37*		*31 - 110*	*10/16/14 07:28*	*10/21/14 04:43*	*1*
Terphenyl-d14	*72*		*36 - 134*	*10/16/14 07:28*	*10/21/14 04:43*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.013**	**J**	0.050	0.010	mg/L		10/18/14 09:00	10/28/14 03:46	1
Barium	**0.54**		0.50	0.050	mg/L		10/18/14 09:00	10/28/14 03:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 03:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 03:46	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:46	1
Cobalt	**0.040**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:46	1
Copper	**0.019**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:46	1
Iron	**0.22**		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 03:46	1
Lead	**0.013**		0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 13:04	1
Manganese	**8.8**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:46	1
Nickel	**0.038**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:46	1
Selenium	**0.024**	**J**	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 03:46	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 03:46	1
Zinc	**0.15**		0.10	0.020	mg/L		10/18/14 09:00	10/28/14 03:46	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		10/17/14 09:30	10/27/14 19:19	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 19:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 19:19	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 19:19	1
Chromium	**0.028**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:19	1
Cobalt	**0.014**	**J**	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:19	1
Copper	**0.053**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:19	1
Iron	**29**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 19:19	1
Lead	**0.026**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 19:19	1
Manganese	**0.84**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:19	1
Nickel	**0.038**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:19	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 19:19	1

Client Sample ID: CBW-3(4-8)-101314
Date Collected: 10/13/14 11:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-18
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 19:19	1
Zinc	**0.082**	**J**	0.10	0.020	mg/L		10/17/14 09:30	10/27/14 19:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Arsenic	**8.1**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Barium	**73**		0.59	0.063	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Beryllium	**0.72**		0.24	0.047	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Cadmium	**0.058**	**J**	0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Calcium	**4800**		12	3.2	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Chromium	**19**	**B**	0.59	0.068	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Cobalt	**11**		0.30	0.059	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Copper	**26**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Iron	**19000**		12	4.9	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Lead	**18**		0.30	0.088	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Magnesium	**5000**		5.9	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Manganese	**240**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Nickel	**26**		0.59	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Potassium	**2500**		30	1.8	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Silver	<0.30		0.30	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Sodium	**230**		59	7.9	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Thallium	**1.5**		0.59	0.25	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Vanadium	**26**		0.30	0.044	mg/Kg	☼	10/23/14 10:30	10/27/14 04:13	1
Zinc	**49**	**B**	1.2	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 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		10/20/14 12:30	10/21/14 10:55	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		10/17/14 12:20	10/20/14 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**40**		21	8.4	ug/Kg	☼	10/17/14 15:00	10/20/14 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.36**		0.200	0.200	SU			10/22/14 17:14	1

Qualifiers

GC/MS 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.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds 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.
B	Compound was found in the blank and sample.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the 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.
L	A negative instrument reading had an absolute value greater than the reporting limit
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control 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 - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

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	04-30-15

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)

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

(optional)

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

Chain of Custody Record

Lab Job #: 500-85946

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler: 2.1/2.3

Client	Client Project #
Weston	
Project Name: IDOT-069	
Project Location/State: Willowbrook / IL	Lab Project #
Sampler: T. Walls	Lab PM: D. Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	7	7	7	7	7				
							Parameter	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PCB				
11		VL-2 (4-8)-101314	10-13-14	1050	2	S		X	X	X	X	X				
12		VL-1 (0-4)-101314		1105												
13		VL-1 (0-4)-101314D		1105												
14		VL-1 (4-8)-101314		1110												
15		CBW-4 (0-4)-101314		1130												
16		CBW-4 (4-8)-101314		1135												
17		CBW-3 (0-4)-101314		1150												
18		CBW-3 (4-8)-101314		1155												
19		CBW-2 (0-4)-101314		1210												
20		CBW-2 (4-8)-101314	10-13-14	1215	2	S		X	X	X	X	X				

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

Comments

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

Sample Disposal
[ ] Return to Client [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
Timothy A. Walls	Weston	10-13-14	1530	P. Neal	TA	10/13/14	1535
P. Neal	TA	10/13/14	1627	Sherri Scott	TA-CAL	10/14/14	0710
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: 500-85947-1
Client Project/Site: IDOT - Willowbrook - WO 089

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

Attn: Mr. S. Babusukumar

Authorized for release by:
10/28/2014 2:38:42 PM

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

Client Sample ID: CBW-1(0-4)-101314
Date Collected: 10/13/14 12:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-1
Matrix: Solid
Percent Solids: 84.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.6	ug/Kg	☼		10/16/14 14:34	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/16/14 14:34	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/16/14 14:34	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/16/14 14:34	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/16/14 14:34	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/16/14 14:34	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/16/14 14:34	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/16/14 14:34	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/16/14 14:34	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/16/14 14:34	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 14:34	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		10/16/14 14:34	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		10/16/14 14:34	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/16/14 14:34	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		10/16/14 14:34	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/16/14 14:34	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		10/16/14 14:34	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		10/16/14 14:34	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		10/16/14 14:34	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 14:34	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/16/14 14:34	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/16/14 14:34	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/16/14 14:34	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		10/16/14 14:34	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		10/16/14 14:34	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		10/16/14 14:34	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 14:34	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/16/14 14:34	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		10/16/14 14:34	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/16/14 14:34	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/16/14 14:34	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/16/14 14:34	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		10/16/14 14:34	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		10/16/14 14:34	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 14:34	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/16/14 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 122*		*10/16/14 14:34*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*10/16/14 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*		*10/16/14 14:34*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*10/16/14 14:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: CBW-1(0-4)-101314
Date Collected: 10/13/14 12:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-1
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2,4-Dinitrophenol	<780	*	780	680	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
3 & 4 Methylphenol	<190		190	65	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
3,3'-Dichlorobenzidine	<190		190	54	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
4,6-Dinitro-2-methylphenol	<380	*	380	310	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
4-Nitroaniline	<380		380	160	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Acenaphthene	<38		38	7.0	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Anthracene	<38		38	6.5	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Benzo[a]anthracene	**20**	**J**	38	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Benzo[a]pyrene	**22**	**J**	38	7.5	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Benzo[b]fluoranthene	**36**	**J**	38	8.3	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Benzo[g,h,i]perylene	**20**	**J**	38	12	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Benzo[k]fluoranthene	**14**	**J**	38	11	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Carbazole	<190		190	100	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Chrysene	**27**	**J**	38	11	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Dibenz(a,h)anthracene	<38		38	7.5	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Fluoranthene	**31**	**J**	38	7.2	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Fluorene	<38		38	5.4	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: CBW-1(0-4)-101314
Date Collected: 10/13/14 12:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-1
Matrix: Solid
Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**17**	**J**	38	10	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Isophorone	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Naphthalene	<38		38	6.0	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Nitrobenzene	<38		38	9.7	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
N-Nitrosodi-n-propylamine	<190	*	190	47	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Phenanthrene	**16**	**J**	38	5.4	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Phenol	<190		190	86	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1
Pyrene	**37**	**J**	38	7.7	ug/Kg	☼	10/15/14 18:12	10/20/14 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*35 - 137*	*10/15/14 18:12*	*10/20/14 14:25*	*1*
2-Fluorobiphenyl	*53*		*25 - 119*	*10/15/14 18:12*	*10/20/14 14:25*	*1*
2-Fluorophenol	*43*		*25 - 110*	*10/15/14 18:12*	*10/20/14 14:25*	*1*
Nitrobenzene-d5	*30*		*25 - 115*	*10/15/14 18:12*	*10/20/14 14:25*	*1*
Phenol-d5	*43*		*31 - 110*	*10/15/14 18:12*	*10/20/14 14:25*	*1*
Terphenyl-d14	*73*		*36 - 134*	*10/15/14 18:12*	*10/20/14 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		10/20/14 11:15	10/20/14 21:44	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 21:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 21:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 21:44	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:44	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:44	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:44	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 21:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 21:44	1
Manganese	**0.13**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:44	1
Nickel	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:44	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 17:46	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:44	1
Zinc	**0.023**	**J B**	0.10	0.020	mg/L		10/20/14 11:15	10/20/14 21:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.12**		0.050	0.010	mg/L		10/20/14 11:10	10/26/14 17:02	1
Barium	**0.68**		0.50	0.050	mg/L		10/20/14 11:10	10/26/14 17:02	1
Beryllium	**0.0095**		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 17:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 17:02	1
Chromium	**0.22**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:02	1
Cobalt	**0.076**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:02	1
Copper	**0.32**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:02	1
Iron	**250**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 17:02	1
Lead	**0.20**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 17:02	1
Manganese	**1.1**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:02	1
Nickel	**0.28**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:02	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 17:02	1

Client Sample ID: CBW-1(0-4)-101314
Date Collected: 10/13/14 12:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:02	1
Zinc	**0.62**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 17:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Arsenic	**6.6**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Barium	**36**		0.56	0.060	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Beryllium	**0.52**		0.22	0.045	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Cadmium	**0.17**		0.11	0.014	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Calcium	**55000**		11	3.0	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Chromium	**14**		0.56	0.065	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Cobalt	**9.7**		0.28	0.056	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Copper	**22**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Iron	**16000**		11	4.6	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Lead	**19**	**B**	0.28	0.083	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Magnesium	**36000**		5.6	1.1	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Manganese	**340**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Nickel	**22**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Potassium	**2900**		28	1.7	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Selenium	<0.56	L	0.56	0.20	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Sodium	**860**		56	7.5	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Thallium	**1.1**		0.56	0.23	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Vanadium	**17**		0.28	0.041	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	1
Zinc	**41**	**B**	1.1	0.22	mg/Kg	☼	10/24/14 10:00	10/27/14 04:47	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		10/20/14 12:30	10/21/14 09:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**21**	**B**	17	6.6	ug/Kg	☼	10/17/14 15:00	10/20/14 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.87**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: CBW-1(4-8)-101314
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-2
Matrix: Solid
Percent Solids: 83.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	22		6.0	2.6	ug/Kg	☼		10/16/14 14:58	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 14:58	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 14:58	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/16/14 14:58	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/16/14 14:58	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 14:58	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 14:58	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/16/14 14:58	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 14:58	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/16/14 14:58	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 14:58	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/16/14 14:58	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 14:58	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 14:58	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/16/14 14:58	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 14:58	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/16/14 14:58	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/16/14 14:58	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 14:58	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 14:58	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/16/14 14:58	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 14:58	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/16/14 14:58	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 14:58	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 14:58	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 14:58	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 14:58	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/16/14 14:58	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/16/14 14:58	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 14:58	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 14:58	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 14:58	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 14:58	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 14:58	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 14:58	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/16/14 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 122*		*10/16/14 14:58*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*10/16/14 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*10/16/14 14:58*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*		*10/16/14 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	<200		200	42	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: CBW-1(4-8)-101314
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-2
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	89	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2,4-Dinitrophenol	<790	*	790	690	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
4,6-Dinitro-2-methylphenol	<390	*	390	310	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
4-Nitroaniline	<390		390	160	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Acenaphthene	<39		39	7.0	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Anthracene	<39		39	6.5	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Benzo[a]anthracene	<39		39	5.3	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Benzo[a]pyrene	<39		39	7.6	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Benzo[b]fluoranthene	<39		39	8.4	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Carbazole	<200		200	100	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Chrysene	<39		39	11	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Fluoranthene	<39		39	7.3	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Fluorene	<39		39	5.5	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Hexachlorobenzene	<79		79	9.1	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Hexachlorocyclopentadiene	<790		790	230	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Hexachloroethane	<200		200	59	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: CBW-1(4-8)-101314
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-2
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<39		39	10	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Isophorone	<200		200	44	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Naphthalene	<39		39	6.0	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Nitrobenzene	<39		39	9.8	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
N-Nitrosodi-n-propylamine	<200	*	200	48	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Phenanthrene	<39		39	5.5	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Phenol	<200		200	87	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1
Pyrene	<39		39	7.8	ug/Kg	☼	10/15/14 18:12	10/20/14 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*53*		*35 - 137*	*10/15/14 18:12*	*10/20/14 14:49*	*1*
2-Fluorobiphenyl	*67*		*25 - 119*	*10/15/14 18:12*	*10/20/14 14:49*	*1*
2-Fluorophenol	*59*		*25 - 110*	*10/15/14 18:12*	*10/20/14 14:49*	*1*
Nitrobenzene-d5	*41*		*25 - 115*	*10/15/14 18:12*	*10/20/14 14:49*	*1*
Phenol-d5	*49*		*31 - 110*	*10/15/14 18:12*	*10/20/14 14:49*	*1*
Terphenyl-d14	*75*		*36 - 134*	*10/15/14 18:12*	*10/20/14 14:49*	*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		10/20/14 11:15	10/20/14 21:49	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 21:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 21:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 21:49	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:49	1
Cobalt	**0.027**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:49	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:49	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 21:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 21:49	1
Manganese	**6.1**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:49	1
Nickel	**0.025**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:49	1
Selenium	**0.021**	**J**	0.050	0.020	mg/L		10/20/14 11:15	10/21/14 17:51	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:49	1
Zinc	**0.060**	**J B**	0.10	0.020	mg/L		10/20/14 11:15	10/20/14 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.074**		0.050	0.010	mg/L		10/20/14 11:10	10/26/14 17:08	1
Barium	**0.50**		0.50	0.050	mg/L		10/20/14 11:10	10/26/14 17:08	1
Beryllium	**0.0068**		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 17:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 17:08	1
Chromium	**0.14**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:08	1
Cobalt	**0.075**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:08	1
Copper	**0.24**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:08	1
Iron	**180**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 17:08	1
Lead	**0.12**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 17:08	1
Manganese	**1.6**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:08	1
Nickel	**0.26**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:08	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 17:08	1

Client Sample ID: CBW-1(4-8)-101314
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:08	1
Zinc	**0.34**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 17:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.47**	**J**	1.2	0.47	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Arsenic	**11**		0.58	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Barium	**62**		0.58	0.062	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Beryllium	**0.78**		0.23	0.046	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Cadmium	<0.12	L	0.12	0.015	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Calcium	**7600**		12	3.1	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Chromium	**21**		0.58	0.067	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Cobalt	**13**		0.29	0.058	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Copper	**31**		0.58	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Iron	**26000**		12	4.8	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Lead	**19**	**B**	0.29	0.086	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Magnesium	**8000**		5.8	1.2	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Manganese	**380**		0.58	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Nickel	**33**		0.58	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Potassium	**2500**		29	1.7	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Sodium	**780**		58	7.8	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Thallium	**1.5**		0.58	0.24	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Vanadium	**25**		0.29	0.043	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	1
Zinc	**55**	**B**	1.2	0.23	mg/Kg	☼	10/24/14 10:00	10/27/14 04:53	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		10/20/14 12:30	10/21/14 09:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**32**	**B**	18	6.9	ug/Kg	☼	10/17/14 15:00	10/20/14 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.15**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: CBW-1(4-8)-101314D
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-3
Matrix: Solid
Percent Solids: 82.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26		6.1	2.6	ug/Kg	☼		10/23/14 10:08	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		10/23/14 10:08	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		10/23/14 10:08	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/23/14 10:08	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		10/23/14 10:08	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		10/23/14 10:08	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/23/14 10:08	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/23/14 10:08	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		10/23/14 10:08	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		10/23/14 10:08	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/23/14 10:08	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		10/23/14 10:08	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		10/23/14 10:08	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/23/14 10:08	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		10/23/14 10:08	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		10/23/14 10:08	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		10/23/14 10:08	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		10/23/14 10:08	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		10/23/14 10:08	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/23/14 10:08	1
2-Hexanone	<6.1		6.1	1.7	ug/Kg	☼		10/23/14 10:08	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		10/23/14 10:08	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/23/14 10:08	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/23/14 10:08	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/23/14 10:08	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		10/23/14 10:08	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/23/14 10:08	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		10/23/14 10:08	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		10/23/14 10:08	1
trans-1,2-Dichloroethene	<6.1		6.1	0.83	ug/Kg	☼		10/23/14 10:08	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/23/14 10:08	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/23/14 10:08	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		10/23/14 10:08	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/23/14 10:08	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/23/14 10:08	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/23/14 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*10/23/14 10:08*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*10/23/14 10:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*10/23/14 10:08*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*10/23/14 10:08*	*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	☼	10/15/14 18:12	10/20/14 15:12	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: CBW-1(4-8)-101314D
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-3
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	90	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2,4,6-Trichlorophenol	<390		390	140	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2,4-Dichlorophenol	<390		390	94	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2,4-Dinitrophenol	<800	*	800	700	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2-Methylnaphthalene	<39		39	7.3	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2-Nitroaniline	<200		200	53	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
2-Nitrophenol	<390		390	93	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
3,3'-Dichlorobenzidine	<200		200	55	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
4,6-Dinitro-2-methylphenol	<390	*	390	320	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
4-Nitroaniline	<390		390	170	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Acenaphthene	<39		39	7.1	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Acenaphthylene	<39		39	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Anthracene	<39		39	6.6	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Benzo[a]anthracene	**12**	**J**	39	5.3	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Benzo[a]pyrene	**14**	**J**	39	7.6	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Benzo[b]fluoranthene	**24**	**J**	39	8.5	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Benzo[k]fluoranthene	<39		39	12	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Bis(2-ethylhexyl) phthalate	<200		200	72	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Butyl benzyl phthalate	<200		200	75	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Carbazole	<200		200	100	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Chrysene	**17**	**J**	39	11	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Dibenz(a,h)anthracene	<39		39	7.6	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Di-n-butyl phthalate	<200		200	60	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Fluoranthene	**18**	**J**	39	7.3	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Fluorene	<39		39	5.6	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Hexachlorobutadiene	<200		200	62	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Hexachloroethane	<200		200	60	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: CBW-1(4-8)-101314D
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-3
Matrix: Solid
Percent Solids: 82.4

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	**10**	**J**	39	10	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Isophorone	<200		200	44	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Naphthalene	<39		39	6.1	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Nitrobenzene	<39		39	9.9	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
N-Nitrosodi-n-propylamine	<200	*	200	48	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Pentachlorophenol	<800		800	630	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Phenanthrene	**10**	**J**	39	5.5	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Phenol	<200		200	88	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1
Pyrene	**26**	**J**	39	7.9	ug/Kg	☼	10/15/14 18:12	10/20/14 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*35 - 137*	*10/15/14 18:12*	*10/20/14 15:12*	*1*
2-Fluorobiphenyl	*53*		*25 - 119*	*10/15/14 18:12*	*10/20/14 15:12*	*1*
2-Fluorophenol	*40*		*25 - 110*	*10/15/14 18:12*	*10/20/14 15:12*	*1*
Nitrobenzene-d5	*31*		*25 - 115*	*10/15/14 18:12*	*10/20/14 15:12*	*1*
Phenol-d5	*36*		*31 - 110*	*10/15/14 18:12*	*10/20/14 15:12*	*1*
Terphenyl-d14	*70*		*36 - 134*	*10/15/14 18:12*	*10/20/14 15:12*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/20/14 11:15	10/20/14 21:54	1
Barium	**0.38**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 21:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 21:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 21:54	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:54	1
Cobalt	**0.029**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:54	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:54	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 21:54	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 21:54	1
Manganese	**5.5**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:54	1
Nickel	**0.021**	**J**	0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:54	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 17:56	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:54	1
Zinc	**0.020**	**J B**	0.10	0.020	mg/L		10/20/14 11:15	10/20/14 21:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.069**		0.050	0.010	mg/L		10/20/14 11:10	10/26/14 17:14	1
Barium	**0.38**	**J**	0.50	0.050	mg/L		10/20/14 11:10	10/26/14 17:14	1
Beryllium	**0.0053**		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 17:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 17:14	1
Chromium	**0.12**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:14	1
Cobalt	**0.055**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:14	1
Copper	**0.19**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:14	1
Iron	**150**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 17:14	1
Lead	**0.16**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 17:14	1
Manganese	**1.0**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:14	1
Nickel	**0.17**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:14	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 17:14	1

Client Sample ID: CBW-1(4-8)-101314D
Date Collected: 10/13/14 12:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:14	1
Zinc	**0.35**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 17:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Arsenic	**8.8**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Barium	**68**		0.56	0.060	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Beryllium	**0.67**		0.22	0.045	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Cadmium	**0.11**		0.11	0.014	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Calcium	**22000**		11	3.0	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Chromium	**19**		0.56	0.065	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Cobalt	**10**		0.28	0.056	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Copper	**31**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Iron	**22000**		11	4.6	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Lead	**200**	**B**	0.28	0.083	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Magnesium	**15000**		5.6	1.2	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Manganese	**430**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Nickel	**26**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Potassium	**2500**		28	1.7	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Sodium	**970**		56	7.5	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Thallium	**1.5**		0.56	0.24	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Vanadium	**22**		0.28	0.041	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1
Zinc	**72**	**B**	1.1	0.23	mg/Kg	☼	10/24/14 10:00	10/27/14 05:14	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 09:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**35**	**B**	19	7.6	ug/Kg	☼	10/17/14 15:00	10/20/14 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.25**		0.200	0.200	SU			10/22/14 17:14	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
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.
L	A negative instrument reading had an absolute value greater than the reporting limit
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control 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.
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 exceeds the control 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 - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

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	04-30-15

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

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500-85947 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Pingree Circle, Ste 202
Address: Hinsdale, IL 60060
Phone: 224-864-7250
Fax: 224-864-7236
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-85947

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 2.1/2.3

Client	Client Project #
Weston	
Project Name: IDOT-069	
Project Location/State: Willowbrook/IL	Lab Project #
Sampler: T. Walls	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	Parameter: VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	HA					Comments
								7	7	7	7	7					
1		CBW-1 (0-4)-101314	10-13-14	1230	2	S		X	X	X	X	X					
2		CBW-1 (4-8)-101314	↓	1235	↓	↓		↓	↓	↓	↓	↓					
3		CBW-1 (4-8)-101314MD		1235													
4		RL-1 (0-4)-101314		1335													
5		RL-1 (4-8)-101314		1340													
6		RL-2 (0-4)-101314		1355													
7		RL-2 (4-8)-101314		1400													
8		RL-3 (0-4)-101314		1430													
9		RL-3 (4-8)-101314	10-13-14	1445	2	S		X	X	X	X	X					
							T. Walls 10-13-14										

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

Sample Disposal
[ ] Return to Client [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
T. Walls A. Walls	Weston	10-13-14	1530	R Neal	TA	10/13/14	1535
R Neal	TA	10/13/14	1627	Sherri Scott	TA-CHI	10/14/14	0710
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 344: IL Rte 83 (Kingery Hwy) at 63rd St Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
6200 S. Madison Street

City: Willowbrook State: IL Zip Code: _____

County: DuPage Township: _____

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

Latitude: 41.774464325 (Decimal Degrees) Longitude: -87.946208241 (-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 344: IL Rte 83 (Kingery Hwy) at 63rd St

Latitude: 41.774464325 Longitude: -87.946208241

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 RL-1, RL-2, RL-3, RL-4, RL-6, AND RL-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 1983V-4. SEE FIGURE 3-1 AND TABLE 4-1 OF THE REVISED PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-85946-1 AND 500-85947-1

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

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

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

Company Name: Illinois Department of Transportation

Street Address: 2300 South Dirksen Parkway

City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

Kurt T. Fischer P.G.
Printed Name:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

11/20/14
Date:

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

Summary Table of ISGS Site No. 1983V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	RL-1(0-4)-101314	RL-1(4-8)-101314	RL-2(0-4)-101314	RL-2(4-8)-101314	RL-3(0-4)-101314	Soil Reference Concentrations[A]
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	RL-1	RL-1	RL-2	RL-2	RL-3	
Depth	0 - 4	4 - 8	0 - 4	4 - 8	0 - 4	
ISGS Site Number	1983V-4	1983V-4	1983V-4	1983V-4	1983V-4	
Parameter						
Laboratory pH	7.83	7.5	7.31	7.52	7.71	<6.25, >9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	ND	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Acenaphthene	ND	ND	ND	ND	ND	570000
Acenaphthylene	ND	ND	ND	ND	ND	---
Anthracene	ND	ND	ND	ND	ND	1.20E+07
Benzo(a)anthracene	ND	ND	ND	ND	31 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	ND	ND	ND	36	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	ND	ND	ND	54	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	ND	ND	ND	31 J	---
Benzo(k)fluoranthene	ND	ND	ND	ND	26 J	9000
Chrysene	ND	ND	ND	ND	40	88000
Dibenzo(a,h)anthracene	ND	ND	ND	ND	9.2 J	90 / 200 / 420
Fluoranthene	ND	ND	ND	ND	48	3100000
Fluorene	ND	ND	ND	ND	ND	560000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	25 J	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	ND	ND	1800
Phenanthrene	ND	ND	ND	ND	28 J	---
Pyrene	ND	ND	ND	ND	54	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	8	13	8.3	9.4	7.2	11.3/13.0
Barium, Total	39	47	56	35	75	1500
Beryllium, Total	0.59	0.66	0.56	0.58	0.63	22
Cadmium, Total	0.12	0.047 J	ND	0.072 J	0.24	5.2
Calcium, Total	34000	13000	2100	33000	26000	---
Chromium, Total	17	16	16	16	16	21
Cobalt, Total	12	12	9.2	9	9.1	20
Copper, Total	27	40	18	30	24	2900
Iron, Total	20000	25000	19000	20000	17000	15000/15900
Lead, Total	13 B	17 B	16 B	14 B	24 B	107
Magnesium, Total	20000	11000	2900	21000	17000	325000
Manganese, Total	420	440	280	250	280	630/636
Mercury, Total	ND	ND	0.052 J-	ND	0.056 J-	0.89
Nickel, Total	30	37	18	26	23	100
Potassium, Total	2900	2000	1400	2900	2100	---
Selenium, Total	ND	ND	0.36 J	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	260	240	500	350	840	---
Thallium, Total	1.5	1.8	1.2	1.6	1.1	2.6
Vanadium, Total	19	21	24	19	20	550
Zinc, Total	48 B	52 B	45 B	46 B	60 B	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.27 J	0.3 J	0.18 J	0.38 J	0.51	2
Cadmium, TCLP	ND	ND	ND	ND	ND	0.005
Cobalt, TCLP	ND	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	0.014 J	0.021 J	ND	0.65
Iron, TCLP	ND	ND	ND	ND	0.58	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.21	0.14	0.046	0.32	0.22	0.15
Nickel, TCLP	ND	ND	ND	ND	ND	0.1

Summary Table of ISGS Site No. 1983V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	RL-1(0-4)-101314	RL-1(4-8)-101314	RL-2(0-4)-101314	RL-2(4-8)-101314	RL-3(0-4)-101314	**Soil Reference Concentrations[A]**
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	RL-1	RL-1	RL-2	RL-2	RL-3	
Depth	0 - 4	4 - 8	0 - 4	4 - 8	0 - 4	
ISGS Site Number	1983V-4	1983V-4	1983V-4	1983V-4	1983V-4	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.036 J	0.013 J	0.081	0.032 J	0.049 J	0.05
Barium, SPLP	0.18 J	0.089 J	0.42 J	0.23 J	0.41 J	2
Beryllium, SPLP	ND	ND	0.0061	ND	0.005	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.069	0.032	0.13	0.077	0.12	0.1
Cobalt, SPLP	0.023 J	ND	0.034	0.021 J	0.039	1
Copper, SPLP	0.099	0.046	0.23	0.085	0.14	0.65
Iron, SPLP	77 J+	35 J+	200 J+	77 J+	120 J+	5
Lead, SPLP	0.038	0.014	0.072	0.032	0.11	0.0075
Manganese, SPLP	0.32	0.11	0.85	0.3	0.55	0.15
Mercury, SPLP	ND	ND	0.00032	ND	ND	0.002
Nickel, SPLP	0.088	0.035	0.18	0.089	0.13	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.24 B	ND	0.38 B	0.2 B	0.38 B	5

Summary Table of ISGS Site No. 1983V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	RL-3(4-8)-101314	RL-4(0-4)-101314	RL-4(4-8)-101314	RL-6(0-4)-101314	RL-6(4-8)-101314	Soil Reference Concentrations[A]
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	RL-3	RL-4	RL-4	RL-6	RL-6	
Depth	4 - 8	0 - 4	4 - 8	0 - 4	4 - 8	
ISGS Site Number	1983V-4	1983V-4	1983V-4	1983V-4	1983V-4	
Parameter						
Laboratory pH	7.74	8.25	8.18	8.25	8.28	<6.25, >9.0
VOCs (ug/kg)						
Acetone	ND	ND	ND	ND	31	25000
Methyl ethyl ketone	ND	ND	ND	ND	ND	---
SVOCs (ug/kg)						
2-Methylnaphthalene	ND	ND	ND	ND	ND	---
Acenaphthene	ND	ND	ND	41	ND	570000
Acenaphthylene	ND	ND	ND	ND	ND	---
Anthracene	ND	8.5 J	57 J	71	6.8 J	1.20E+07
Benzo(a)anthracene	ND	56	240	370	59	900 / 1100 / 1800
Benzo(a)pyrene	ND	43	200	450	78	90 / 1300 / 2100
Benzo(b)fluoranthene	ND	57	210	570	110	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	40	150 J	420	110	---
Benzo(k)fluoranthene	ND	22 J	200	210	35 J	9000
Chrysene	ND	49	220	420	69	88000
Dibenzo(a,h)anthracene	ND	12 J	73 J	98	23 J	90 / 200 / 420
Fluoranthene	ND	77	410	1000	110	3100000
Fluorene	ND	ND	ND	42	8.5 J	560000
Indeno(1,2,3-cd)pyrene	ND	33 J	120 J	300	73	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	20 J	ND	1800
Phenanthrene	ND	31 J	170 J	500	43	---
Pyrene	ND	70	410	800	97	2300000
Total Metals (mg/kg)						
Antimony, Total	ND	ND	ND	ND	ND	5
Arsenic, Total	11	7.9 J	10 J	5.3 J	6.8 J	11.3/13.0
Barium, Total	72	45	50	38	60	1500
Beryllium, Total	0.74	0.59 J	0.61 J	0.41 J	0.54 J	22
Cadmium, Total	ND	0.11 J	0.13 J-	0.29 J-	0.19 J-	5.2
Calcium, Total	3600	28000 J	21000 J	110000 J	16000 J	---
Chromium, Total	20	16 J-	16 J-	19 J-	16 J-	21
Cobalt, Total	16	9.7 J	10 J	5.2 J	9.4 J	20
Copper, Total	31	23 J	25 J	22 J	22 J	2900
Iron, Total	28000	19000 J-	20000 J-	11000 J-	16000 J-	15000/15900
Lead, Total	15 B	22 J	29 J	41 J	24 J	107
Magnesium, Total	4500	15000 J	13000 J	52000 J	11000 J	325000
Manganese, Total	140	350 J+	350 J+	240 J+	330 J+	630/636
Mercury, Total	0.064 J-	0.032 J	0.043 J	0.046 J	0.026 J	0.89
Nickel, Total	37	23 J	24 J	14 J	19 J	100
Potassium, Total	1700	2800 J+	2500 J+	2500 J+	2000 J+	---
Selenium, Total	ND	ND	ND	ND	ND	1.3
Silver, Total	ND	ND	ND	ND	ND	4.4
Sodium, Total	1600	460	530	720	1100	---
Thallium, Total	1.5	1.4 J-	1.6 J-	0.82 J-	1.5 J-	2.6
Vanadium, Total	20	22	22	14	22	550
Zinc, Total	61 B	44 J	76 J	59 J	61 J	5100
TCLP Metals (mg/l)						
Arsenic, TCLP	ND	0.011 J	ND	ND	ND	0.05
Barium, TCLP	0.14 J	0.35 J	0.32 J	0.33 J	0.43 J	2
Cadmium, TCLP	ND	ND	ND	ND	0.002 J	0.005
Cobalt, TCLP	0.012 J	ND	ND	ND	0.054	1
Copper, TCLP	ND	0.012 J	0.014 J	ND	0.016 J	0.65
Iron, TCLP	2.6	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.26	1.2	0.25	0.36	8.1	0.15
Nickel, TCLP	0.014 J	0.01 J	ND	ND	0.035	0.1

Summary Table of ISGS Site No. 1983V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	RL-3(4-8)-101314	RL-4(0-4)-101314	RL-4(4-8)-101314	RL-6(0-4)-101314	RL-6(4-8)-101314	**Soil Reference Concentrations[A]**
Sample Date	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	
Location ID	RL-3	RL-4	RL-4	RL-6	RL-6	
Depth	4 - 8	0 - 4	4 - 8	0 - 4	4 - 8	
ISGS Site Number	1983V-4	1983V-4	1983V-4	1983V-4	1983V-4	
Parameter						
SPLP Metals (mg/l)						
Arsenic, SPLP	0.043 J	0.016 J	ND	0.082	0.049 J	0.05
Barium, SPLP	0.84	0.25 J	0.16 J	0.52	0.41 J	2
Beryllium, SPLP	0.0092	ND	ND	0.0073	0.0042	0.004
Cadmium, SPLP	ND	ND	ND	0.0031 J	ND	0.005
Chromium, SPLP	0.22	0.035	ND	0.16	0.085	0.1
Cobalt, SPLP	0.15	0.017 J	ND	0.045	0.042	1
Copper, SPLP	0.28	0.064	0.03	0.24	0.16	0.65
Iron, SPLP	260 J+	36 J+	6.9 J+	180 J+	100 J+	5
Lead, SPLP	0.17	0.08	0.067	0.15	0.22	0.0075
Manganese, SPLP	0.82	0.54	0.3	0.73	1.1	0.15
Mercury, SPLP	0.00047	ND	ND	ND	ND	0.002
Nickel, SPLP	0.31	0.046	0.013 J	0.2	0.1	0.1
Selenium, TCLP	ND	0.021 J	0.02 J	ND	ND	0.05
Zinc, SPLP	0.51 B	0.12	0.14	0.56	0.36	5

Summary Table of ISGS Site No. 1983V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	RL-7(4-8)-101314	RL-7(0-4)-101314	RL-7(4-8)-101314D	**Soil Reference Concentrations[A]**
Sample Date	10/13/2014	10/13/2014	10/13/2014	
Location ID	RL-7	RL-7	RL-7	
Depth	0 - 4	4 - 8	4 - 8	
ISGS Site Number	1983V-4	1983V-4	1983V-4	
Parameter				
Laboratory pH	8.38	8.4	8.41	<6.25, >9.0
VOCs (ug/kg)				
Acetone	ND	36	ND	25000
Methyl ethyl ketone	ND	5.3 J	ND	---
SVOCs (ug/kg)				
2-Methylnaphthalene	ND	ND	ND	---
Acenaphthene	7.7 J	18 J	11 J	570000
Acenaphthylene	ND	ND	ND	---
Anthracene	21 J	110 J-	32 J	1.20E+07
Benzo(a)anthracene	160	390 J	230	900 / 1100 / 1800
Benzo(a)pyrene	240	300 J-	290	90 / 1300 / 2100
Benzo(b)fluoranthene	230	340 J	360	900 / 1500 / 2100
Benzo(g,h,i)perylene	270	130 J-	300	---
Benzo(k)fluoranthene	210	330 J	160	9000
Chrysene	200	370 J-	270	88000
Dibenzo(a,h)anthracene	65	47 J-	65	90 / 200 / 420
Fluoranthene	350	820 J-	570	3100000
Fluorene	12 J	26 J	16 J	560000
Indeno(1,2,3-cd)pyrene	180	120 J	210	900 / 900 / 1600
Naphthalene, SVOC	ND	ND	ND	1800
Phenanthrene	130	370 J	200	---
Pyrene	320	680 J-	440	2300000
Total Metals (mg/kg)				
Antimony, Total	ND	0.49 J	ND	5
Arsenic, Total	8.3 J	12 J	8.1 J	11.3/13.0
Barium, Total	61	37	64	1500
Beryllium, Total	0.58 J	0.61 J	0.51 J	22
Cadmium, Total	0.31 J-	0.24 J-	0.31 J-	5.2
Calcium, Total	27000 J	23000 J	29000 J	---
Chromium, Total	22 J-	15 J-	20 J-	21
Cobalt, Total	8.9 J	12 J	8.6 J	20
Copper, Total	33 J	39 J	29 J	2900
Iron, Total	18000 J-	21000 J-	17000 J-	15000/15900
Lead, Total	77 J	34 J	42 J	107
Magnesium, Total	18000 J	16000 J	20000 J	325000
Manganese, Total	290 J+	320 J+	380 J+	630/636
Mercury, Total	0.029 J	0.048 J	0.026 J	0.89
Nickel, Total	24 J	29 J	22 J	100
Potassium, Total	2300 J+	2300 J+	2100 J+	---
Selenium, Total	ND	ND	ND	1.3
Silver, Total	ND	ND	0.024 J	4.4
Sodium, Total	820	980	800	---
Thallium, Total	1.4 J-	1.6 J-	1.5 J-	2.6
Vanadium, Total	19	20	19	550
Zinc, Total	82 J	53 J	78 J	5100
TCLP Metals (mg/l)				
Arsenic, TCLP	ND	ND	ND	0.05
Barium, TCLP	0.37 J	0.42 J	0.29 J	2
Cadmium, TCLP	0.0028 J	0.0025 J	0.0024 J	0.005
Cobalt, TCLP	0.03	0.029	0.027	1
Copper, TCLP	ND	0.011 J	0.013 J	0.65
Iron, TCLP	ND	0.29	ND	5
Lead, TCLP	0.052 J	0.089	0.02 J	0.0075
Manganese, TCLP	3.2	6.3	4.2	0.15
Nickel, TCLP	0.028	0.029	0.023 J	0.1

Summary Table of ISGS Site No. 1983V-4
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Illinois Route 83 (Kingery Highway) over Marion Hills Ditch at 63rd Street
Willowbrook, DuPage County, Illinois

Field Sample ID	RL-7(4-8)-101314	RL-7(0-4)-101314	RL-7(4-8)-101314D	**Soil Reference Concentrations[A]**
Sample Date	10/13/2014	10/13/2014	10/13/2014	
Location ID	RL-7	RL-7	RL-7	
Depth	0 - 4	4 - 8	4 - 8	
ISGS Site Number	1983V-4	1983V-4	1983V-4	
Parameter				
SPLP Metals (mg/l)				
Arsenic, SPLP	ND	0.056	0.018 J	0.05
Barium, SPLP	0.16 J	0.32 J	0.16 J	2
Beryllium, SPLP	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	0.005
Chromium, SPLP	ND	0.083	0.033	0.1
Cobalt, SPLP	ND	0.046	0.016 J	1
Copper, SPLP	0.048 J	0.18	0.093 J	0.65
Iron, SPLP	7.1 J	100 J+	38 J	5
Lead, SPLP	0.2	0.58	0.12	0.0075
Manganese, SPLP	0.26 J	1.2	0.46 J	0.15
Mercury, SPLP	ND	ND	ND	0.002
Nickel, SPLP	0.015 J	0.12	0.048 J	0.1
Selenium, TCLP	ND	ND	ND	0.05
Zinc, SPLP	0.15	0.32	0.23	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.

J- - Estimated concentration, biased low.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-85946-1
Client Project/Site: IDOT - Willowbrook - WO 089

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

Attn: Mr. S. Babusukumar

Authorized for release by:
10/28/2014 4:40:38 PM

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

Client Sample ID: RL-7(0-4)-101314
Date Collected: 10/13/14 08:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-1
Matrix: Solid
Percent Solids: 84.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**36**		5.9	2.5	ug/Kg	☼		10/16/14 13:10	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/16/14 13:10	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/16/14 13:10	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/16/14 13:10	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/16/14 13:10	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/16/14 13:10	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/16/14 13:10	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/16/14 13:10	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/16/14 13:10	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/16/14 13:10	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:10	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/16/14 13:10	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/16/14 13:10	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/16/14 13:10	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/16/14 13:10	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/16/14 13:10	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/16/14 13:10	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		10/16/14 13:10	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/16/14 13:10	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:10	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/16/14 13:10	1
Methylene Chloride	<5.9	*	5.9	1.6	ug/Kg	☼		10/16/14 13:10	1
Methyl Ethyl Ketone	**5.3**	**J**	5.9	2.1	ug/Kg	☼		10/16/14 13:10	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/16/14 13:10	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/16/14 13:10	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/16/14 13:10	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:10	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/16/14 13:10	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		10/16/14 13:10	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/16/14 13:10	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/16/14 13:10	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/16/14 13:10	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/16/14 13:10	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/16/14 13:10	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:10	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/16/14 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*10/16/14 13:10*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*10/16/14 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*		*10/16/14 13:10*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*10/16/14 13:10*	*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	☼	10/16/14 07:28	10/20/14 22:50	1
1,2-Dichlorobenzene	<200		200	47	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
1,3-Dichlorobenzene	<200		200	44	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
1,4-Dichlorobenzene	<200		200	50	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2,2'-oxybis[1-chloropropane]	<200		200	45	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(0-4)-101314
Date Collected: 10/13/14 08:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-1
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	<390		390	89	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2,4,6-Trichlorophenol	<390		390	130	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2,4-Dichlorophenol	<390		390	93	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2,4-Dimethylphenol	<390		390	150	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2,4-Dinitrophenol	<790		790	690	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2,4-Dinitrotoluene	<200		200	62	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2,6-Dinitrotoluene	<200		200	77	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2-Chloronaphthalene	<200		200	43	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2-Chlorophenol	<200		200	67	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2-Methylnaphthalene	<39		39	7.2	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2-Methylphenol	<200		200	63	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2-Nitroaniline	<200		200	52	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
2-Nitrophenol	<390		390	92	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
3 & 4 Methylphenol	<200		200	65	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
3,3'-Dichlorobenzidine	<200	*	200	55	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
3-Nitroaniline	<390		390	120	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
4,6-Dinitro-2-methylphenol	<390		390	310	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
4-Bromophenyl phenyl ether	<200		200	51	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
4-Chloro-3-methylphenol	<390		390	130	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
4-Chloroaniline	<790		790	180	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
4-Nitroaniline	<390	*	390	160	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
4-Nitrophenol	<790		790	370	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Acenaphthene	**18**	**J**	39	7.0	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Acenaphthylene	<39		39	5.1	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Anthracene	**110**		39	6.5	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Benzo[a]anthracene	**390**		39	5.2	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Benzo[a]pyrene	**300**		39	7.5	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Benzo[b]fluoranthene	**340**		39	8.4	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Benzo[g,h,i]perylene	**130**		39	13	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Benzo[k]fluoranthene	**330**		39	11	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Bis(2-chloroethoxy)methane	<200		200	40	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Bis(2-ethylhexyl) phthalate	<200		200	71	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Butyl benzyl phthalate	<200		200	74	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Carbazole	<200	*	200	100	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Chrysene	**370**		39	11	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Dibenz(a,h)anthracene	**47**		39	7.5	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Dibenzofuran	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Dimethyl phthalate	<200		200	51	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Di-n-butyl phthalate	<200		200	59	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Di-n-octyl phthalate	<200		200	64	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Fluoranthene	**820**		39	7.2	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Fluorene	**26**	**J**	39	5.5	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Hexachlorobenzene	<79		79	9.0	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Hexachlorobutadiene	<200		200	61	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Hexachlorocyclopentadiene	<790		790	220	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Hexachloroethane	<200		200	59	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(0-4)-101314
Date Collected: 10/13/14 08:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-1
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	**120**		39	10	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Isophorone	<200		200	44	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Naphthalene	<39		39	6.0	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Nitrobenzene	<39		39	9.7	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
N-Nitrosodi-n-propylamine	<200		200	48	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
N-Nitrosodiphenylamine	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Pentachlorophenol	<790		790	630	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Phenanthrene	**370**		39	5.4	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Phenol	<200		200	87	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1
Pyrene	**680**		39	7.7	ug/Kg	☼	10/16/14 07:28	10/20/14 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*35 - 137*	*10/16/14 07:28*	*10/20/14 22:50*	*1*
2-Fluorobiphenyl	*67*		*25 - 119*	*10/16/14 07:28*	*10/20/14 22:50*	*1*
2-Fluorophenol	*62*		*25 - 110*	*10/16/14 07:28*	*10/20/14 22:50*	*1*
Nitrobenzene-d5	*69*		*25 - 115*	*10/16/14 07:28*	*10/20/14 22:50*	*1*
Phenol-d5	*61*		*31 - 110*	*10/16/14 07:28*	*10/20/14 22:50*	*1*
Terphenyl-d14	*99*		*36 - 134*	*10/16/14 07:28*	*10/20/14 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		10/18/14 09:00	10/28/14 02:00	1
Barium	**0.42**	**J**	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 02:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 02:00	1
Cadmium	**0.0025**	**J**	0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 02:00	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:00	1
Cobalt	**0.029**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:00	1
Copper	**0.011**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:00	1
Iron	**0.29**		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 02:00	1
Lead	**0.089**		0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 12:31	1
Manganese	**6.3**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:00	1
Nickel	**0.029**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:00	1
Selenium	<0.050		0.050	0.020	mg/L		10/18/14 09:00	10/28/14 02:00	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:00	1
Zinc	**0.061**	**J**	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.056**		0.050	0.010	mg/L		10/17/14 09:30	10/27/14 16:45	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 16:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 16:45	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 16:45	1
Chromium	**0.083**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 16:45	1
Cobalt	**0.046**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 16:45	1
Copper	**0.18**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 16:45	1
Iron	**100**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 16:45	1
Lead	**0.58**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 16:45	1
Manganese	**1.2**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 16:45	1
Nickel	**0.12**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 16:45	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 16:45	1

Client Sample ID: RL-7(0-4)-101314
Date Collected: 10/13/14 08:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 16:45	1
Zinc	**0.32**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 16:45	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.49**	**J**	1.2	0.46	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Arsenic	**12**		0.58	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Barium	**37**		0.58	0.062	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Beryllium	**0.61**		0.23	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Cadmium	**0.24**		0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Calcium	**23000**		12	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Chromium	**15**	**B**	0.58	0.067	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Cobalt	**12**		0.29	0.058	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Copper	**39**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Iron	**21000**		12	4.7	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Lead	**34**		0.29	0.086	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Magnesium	**16000**		5.8	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Manganese	**320**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Nickel	**29**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Potassium	**2300**		29	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Sodium	**980**		58	7.7	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Thallium	**1.6**		0.58	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Vanadium	**20**		0.29	0.043	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1
Zinc	**53**	**B**	1.2	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 01:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:10	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		10/17/14 12:20	10/20/14 09:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**48**		18	7.2	ug/Kg	☼	10/17/14 15:00	10/20/14 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.40**		0.200	0.200	SU			10/22/14 17:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(4-8)-101314
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-2
Matrix: Solid
Percent Solids: 82.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		10/16/14 13:33	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		10/16/14 13:33	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 13:33	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/16/14 13:33	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/16/14 13:33	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 13:33	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 13:33	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/16/14 13:33	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 13:33	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/16/14 13:33	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 13:33	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/16/14 13:33	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 13:33	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 13:33	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/16/14 13:33	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 13:33	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/16/14 13:33	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	☼		10/16/14 13:33	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 13:33	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 13:33	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/16/14 13:33	1
Methylene Chloride	<6.0	*	6.0	1.6	ug/Kg	☼		10/16/14 13:33	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/16/14 13:33	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 13:33	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 13:33	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 13:33	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 13:33	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/16/14 13:33	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/16/14 13:33	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/16/14 13:33	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 13:33	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 13:33	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 13:33	1
Trichloroethene	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 13:33	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 13:33	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/16/14 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 122*		*10/16/14 13:33*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/16/14 13:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*		*10/16/14 13:33*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*10/16/14 13:33*	*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	☼	10/16/14 07:28	10/20/14 23:11	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
1,4-Dichlorobenzene	<200		200	51	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2,2'-oxybis[1-chloropropane]	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(4-8)-101314
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-2
Matrix: Solid
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	91	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2,4-Dichlorophenol	<400		400	95	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2,4-Dinitrophenol	<800		800	700	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2,4-Dinitrotoluene	<200		200	63	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2,6-Dinitrotoluene	<200		200	78	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2-Chlorophenol	<200		200	68	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2-Methylnaphthalene	<40		40	7.3	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2-Methylphenol	<200		200	64	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
2-Nitrophenol	<400		400	94	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
3 & 4 Methylphenol	<200		200	66	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
3,3'-Dichlorobenzidine	<200	*	200	56	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
4,6-Dinitro-2-methylphenol	<400		400	320	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
4-Bromophenyl phenyl ether	<200		200	52	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
4-Chloroaniline	<800		800	190	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
4-Chlorophenyl phenyl ether	<200		200	46	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
4-Nitroaniline	<400	*	400	170	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
4-Nitrophenol	<800		800	380	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Acenaphthene	**7.7**	**J**	40	7.2	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Acenaphthylene	<40		40	5.2	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Anthracene	**21**	**J**	40	6.7	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Benzo[a]anthracene	**160**		40	5.4	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Benzo[a]pyrene	**240**		40	7.7	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Benzo[b]fluoranthene	**230**		40	8.6	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Benzo[g,h,i]perylene	**270**		40	13	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Benzo[k]fluoranthene	**210**		40	12	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Bis(2-ethylhexyl) phthalate	<200		200	73	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Butyl benzyl phthalate	<200		200	76	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Carbazole	<200	*	200	100	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Chrysene	**200**		40	11	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Dibenz(a,h)anthracene	**65**		40	7.7	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Dibenzofuran	<200		200	47	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Dimethyl phthalate	<200		200	52	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Di-n-octyl phthalate	<200		200	65	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Fluoranthene	**350**		40	7.4	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Fluorene	**12**	**J**	40	5.6	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Hexachlorobenzene	<80		80	9.2	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Hexachlorocyclopentadiene	<800		800	230	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(4-8)-101314
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-2
Matrix: Solid
Percent Solids: 82.9

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	**180**		40	10	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Isophorone	<200		200	45	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Naphthalene	<40		40	6.1	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Nitrobenzene	<40		40	9.9	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Pentachlorophenol	<800		800	640	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Phenanthrene	**130**		40	5.5	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Phenol	<200		200	88	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1
Pyrene	**320**		40	7.9	ug/Kg	☼	10/16/14 07:28	10/20/14 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*35 - 137*	*10/16/14 07:28*	*10/20/14 23:11*	*1*
2-Fluorobiphenyl	*50*		*25 - 119*	*10/16/14 07:28*	*10/20/14 23:11*	*1*
2-Fluorophenol	*46*		*25 - 110*	*10/16/14 07:28*	*10/20/14 23:11*	*1*
Nitrobenzene-d5	*52*		*25 - 115*	*10/16/14 07:28*	*10/20/14 23:11*	*1*
Phenol-d5	*42*		*31 - 110*	*10/16/14 07:28*	*10/20/14 23:11*	*1*
Terphenyl-d14	*60*		*36 - 134*	*10/16/14 07:28*	*10/20/14 23:11*	*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		10/20/14 11:15	10/20/14 23:24	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 23:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 23:24	1
Cadmium	**0.0028**	**J**	0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 23:24	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:24	1
Cobalt	**0.030**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:24	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:24	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 23:24	1
Lead	**0.052**		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 23:24	1
Manganese	**3.2**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:24	1
Nickel	**0.028**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:24	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/20/14 23:24	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:24	1
Zinc	**0.15**		0.10	0.020	mg/L		10/20/14 11:15	10/21/14 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/17/14 09:30	10/27/14 17:10	1
Barium	**0.16**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 17:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 17:10	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 17:10	1
Chromium	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:10	1
Cobalt	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:10	1
Copper	**0.048**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:10	1
Iron	**7.1**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 17:10	1
Lead	**0.20**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 17:10	1
Manganese	**0.26**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:10	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:10	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 17:10	1

Client Sample ID: RL-7(4-8)-101314
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:10	1
Zinc	**0.15**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 17:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Arsenic	**8.3**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Barium	**61**		0.58	0.062	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Beryllium	**0.58**		0.23	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Cadmium	**0.31**		0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Calcium	**27000**		12	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Chromium	**22**	**B**	0.58	0.067	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Cobalt	**8.9**		0.29	0.058	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Copper	**33**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Iron	**18000**		12	4.8	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Lead	**77**		0.29	0.086	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Magnesium	**18000**		5.8	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Manganese	**290**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Nickel	**24**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Potassium	**2300**		29	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Sodium	**820**		58	7.8	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Thallium	**1.4**		0.58	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Vanadium	**19**		0.29	0.043	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1
Zinc	**82**	**B**	1.2	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 02:03	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 09:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**29**		19	7.6	ug/Kg	☼	10/17/14 15:00	10/20/14 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.38**		0.200	0.200	SU			10/22/14 17:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(4-8)-101314D
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-3
Matrix: Solid
Percent Solids: 84.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		10/16/14 13:57	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/16/14 13:57	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/16/14 13:57	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/16/14 13:57	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/16/14 13:57	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/16/14 13:57	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/16/14 13:57	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/16/14 13:57	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/16/14 13:57	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/16/14 13:57	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:57	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/16/14 13:57	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/16/14 13:57	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/16/14 13:57	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/16/14 13:57	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/16/14 13:57	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/16/14 13:57	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		10/16/14 13:57	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/16/14 13:57	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:57	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/16/14 13:57	1
Methylene Chloride	<5.9	*	5.9	1.6	ug/Kg	☼		10/16/14 13:57	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/16/14 13:57	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/16/14 13:57	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/16/14 13:57	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/16/14 13:57	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:57	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/16/14 13:57	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		10/16/14 13:57	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/16/14 13:57	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/16/14 13:57	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/16/14 13:57	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/16/14 13:57	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/16/14 13:57	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/16/14 13:57	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/16/14 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 122*		*10/16/14 13:57*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/16/14 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*10/16/14 13:57*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*10/16/14 13:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
1,3-Dichlorobenzene	<190		190	44	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
1,4-Dichlorobenzene	<190		190	50	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(4-8)-101314D
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-3
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2,4-Dichlorophenol	<380		380	92	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
4-Nitroaniline	<380	*	380	160	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Acenaphthene	**11**	**J**	38	6.9	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Anthracene	**32**	**J**	38	6.5	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Benzo[a]anthracene	**230**		38	5.2	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Benzo[a]pyrene	**290**		38	7.5	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Benzo[b]fluoranthene	**360**		38	8.3	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Benzo[g,h,i]perylene	**300**		38	12	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Benzo[k]fluoranthene	**160**		38	11	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Bis(2-ethylhexyl) phthalate	<190		190	71	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Butyl benzyl phthalate	<190		190	74	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Carbazole	<190	*	190	100	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Chrysene	**270**		38	11	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Dibenz(a,h)anthracene	**65**		38	7.5	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Diethyl phthalate	<190		190	66	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Dimethyl phthalate	<190		190	51	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Fluoranthene	**570**		38	7.2	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Fluorene	**16**	**J**	38	5.4	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Hexachlorobenzene	<78		78	9.0	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Hexachlorobutadiene	<190		190	61	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-7(4-8)-101314D
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-3
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	210		38	10	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Isophorone	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
N-Nitrosodiphenylamine	<190		190	46	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Phenanthrene	200		38	5.4	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Phenol	<190		190	86	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1
Pyrene	440		38	7.7	ug/Kg	☼	10/16/14 07:28	10/20/14 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*35 - 137*	*10/16/14 07:28*	*10/20/14 23:32*	*1*
2-Fluorobiphenyl	*52*		*25 - 119*	*10/16/14 07:28*	*10/20/14 23:32*	*1*
2-Fluorophenol	*47*		*25 - 110*	*10/16/14 07:28*	*10/20/14 23:32*	*1*
Nitrobenzene-d5	*53*		*25 - 115*	*10/16/14 07:28*	*10/20/14 23:32*	*1*
Phenol-d5	*46*		*31 - 110*	*10/16/14 07:28*	*10/20/14 23:32*	*1*
Terphenyl-d14	*69*		*36 - 134*	*10/16/14 07:28*	*10/20/14 23:32*	*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		10/18/14 09:00	10/28/14 02:20	1
Barium	0.29	J	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 02:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 02:20	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 02:20	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:20	1
Cobalt	0.027		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:20	1
Copper	0.013	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:20	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 02:20	1
Lead	0.020		0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 12:54	1
Manganese	4.2		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:20	1
Nickel	0.023	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:20	1
Selenium	<0.050		0.050	0.020	mg/L		10/18/14 09:00	10/28/14 02:20	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:20	1
Zinc	0.17		0.10	0.020	mg/L		10/18/14 09:00	10/28/14 02:20	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		10/17/14 09:30	10/27/14 17:16	1
Barium	0.16	J	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 17:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 17:16	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 17:16	1
Chromium	0.033		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:16	1
Cobalt	0.016	J	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:16	1
Copper	0.093		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:16	1
Iron	38		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 17:16	1
Lead	0.12		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 17:16	1
Manganese	0.46		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:16	1
Nickel	0.048		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:16	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 17:16	1

Client Sample ID: RL-7(4-8)-101314D
Date Collected: 10/13/14 08:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:16	1
Zinc	**0.23**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 17:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.46	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Arsenic	**8.1**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Barium	**64**		0.58	0.062	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Beryllium	**0.51**		0.23	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Cadmium	**0.31**		0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Calcium	**29000**		12	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Chromium	**20**	**B**	0.58	0.067	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Cobalt	**8.6**		0.29	0.058	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Copper	**29**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Iron	**17000**		12	4.8	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Lead	**42**		0.29	0.086	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Magnesium	**20000**		5.8	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Manganese	**380**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Nickel	**22**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Potassium	**2100**		29	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Silver	**0.024**	**J**	0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Sodium	**800**		58	7.7	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Thallium	**1.5**		0.58	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Vanadium	**19**		0.29	0.043	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	1
Zinc	**78**	**B**	1.2	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 02:09	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		10/20/14 12:30	10/21/14 10:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**26**		20	7.7	ug/Kg	☼	10/17/14 15:00	10/20/14 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.41**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: RL-6(0-4)-101314
Date Collected: 10/13/14 08:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-4
Matrix: Solid
Percent Solids: 80.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		10/16/14 14:21	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		10/16/14 14:21	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:21	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/16/14 14:21	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/16/14 14:21	1
Carbon disulfide	<6.2		6.2	0.93	ug/Kg	☼		10/16/14 14:21	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:21	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/16/14 14:21	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		10/16/14 14:21	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		10/16/14 14:21	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 14:21	1
cis-1,2-Dichloroethene	<6.2		6.2	0.88	ug/Kg	☼		10/16/14 14:21	1
cis-1,3-Dichloropropene	<6.2		6.2	0.82	ug/Kg	☼		10/16/14 14:21	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:21	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		10/16/14 14:21	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/16/14 14:21	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 14:21	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		10/16/14 14:21	1
1,3-Dichloropropene, Total	<6.2		6.2	0.82	ug/Kg	☼		10/16/14 14:21	1
Ethylbenzene	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 14:21	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/16/14 14:21	1
Methylene Chloride	<6.2	*	6.2	1.7	ug/Kg	☼		10/16/14 14:21	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		10/16/14 14:21	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/16/14 14:21	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 14:21	1
Styrene	<6.2		6.2	0.82	ug/Kg	☼		10/16/14 14:21	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 14:21	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		10/16/14 14:21	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		10/16/14 14:21	1
trans-1,2-Dichloroethene	<6.2		6.2	0.86	ug/Kg	☼		10/16/14 14:21	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:21	1
1,1,1-Trichloroethane	<6.2		6.2	0.93	ug/Kg	☼		10/16/14 14:21	1
1,1,2-Trichloroethane	<6.2		6.2	0.85	ug/Kg	☼		10/16/14 14:21	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 14:21	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 14:21	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/16/14 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*		*10/16/14 14:21*	*1*
Dibromofluoromethane	*96*		*75 - 120*		*10/16/14 14:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*		*10/16/14 14:21*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*10/16/14 14:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	44	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
1,2-Dichlorobenzene	<210		210	49	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
1,3-Dichlorobenzene	<210		210	46	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
1,4-Dichlorobenzene	<210		210	52	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-6(0-4)-101314
Date Collected: 10/13/14 08:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-4
Matrix: Solid
Percent Solids: 80.4

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	☼	10/16/14 07:28	10/20/14 23:52	1
2,4,6-Trichlorophenol	<410		410	140	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2,4-Dichlorophenol	<410		410	97	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2,4-Dimethylphenol	<410		410	150	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2,4-Dinitrophenol	<820		820	720	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2,6-Dinitrotoluene	<210		210	80	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2-Chloronaphthalene	<210		210	45	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2-Chlorophenol	<210		210	70	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2-Methylnaphthalene	<41		41	7.5	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2-Methylphenol	<210		210	66	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2-Nitroaniline	<210		210	55	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
2-Nitrophenol	<410		410	96	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
3 & 4 Methylphenol	<210		210	68	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
3,3'-Dichlorobenzidine	<210	*	210	57	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
3-Nitroaniline	<410		410	130	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
4,6-Dinitro-2-methylphenol	<410		410	330	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
4-Bromophenyl phenyl ether	<210		210	54	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
4-Chloro-3-methylphenol	<410		410	140	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
4-Chloroaniline	<820		820	190	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
4-Chlorophenyl phenyl ether	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
4-Nitroaniline	<410	*	410	170	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
4-Nitrophenol	<820		820	390	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Acenaphthene	**41**		41	7.3	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Acenaphthylene	<41		41	5.4	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Anthracene	**71**		41	6.8	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Benzo[a]anthracene	**370**		41	5.5	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Benzo[a]pyrene	**450**		41	7.9	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Benzo[b]fluoranthene	**570**		41	8.8	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Benzo[g,h,i]perylene	**420**		41	13	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Benzo[k]fluoranthene	**210**		41	12	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Bis(2-chloroethoxy)methane	<210		210	42	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Bis(2-ethylhexyl) phthalate	<210		210	75	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Butyl benzyl phthalate	<210		210	78	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Carbazole	<210	*	210	110	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Chrysene	**420**		41	11	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Dibenz(a,h)anthracene	**98**		41	7.9	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Dibenzofuran	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Di-n-butyl phthalate	<210		210	62	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Di-n-octyl phthalate	<210		210	67	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Fluoranthene	**1000**		41	7.6	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Fluorene	**42**		41	5.7	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Hexachlorobenzene	<82		82	9.5	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Hexachlorobutadiene	<210		210	64	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Hexachlorocyclopentadiene	<820		820	230	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Hexachloroethane	<210		210	62	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-6(0-4)-101314
Date Collected: 10/13/14 08:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-4
Matrix: Solid
Percent Solids: 80.4

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	300		41	11	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Isophorone	<210		210	46	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Naphthalene	20	J	41	6.3	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Nitrobenzene	<41		41	10	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
N-Nitrosodi-n-propylamine	<210		210	50	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
N-Nitrosodiphenylamine	<210		210	48	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Pentachlorophenol	<820		820	660	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Phenanthrene	500		41	5.7	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Phenol	<210		210	91	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1
Pyrene	800		41	8.1	ug/Kg	☼	10/16/14 07:28	10/20/14 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*35 - 137*	*10/16/14 07:28*	*10/20/14 23:52*	*1*
2-Fluorobiphenyl	*66*		*25 - 119*	*10/16/14 07:28*	*10/20/14 23:52*	*1*
2-Fluorophenol	*62*		*25 - 110*	*10/16/14 07:28*	*10/20/14 23:52*	*1*
Nitrobenzene-d5	*66*		*25 - 115*	*10/16/14 07:28*	*10/20/14 23:52*	*1*
Phenol-d5	*57*		*31 - 110*	*10/16/14 07:28*	*10/20/14 23:52*	*1*
Terphenyl-d14	*81*		*36 - 134*	*10/16/14 07:28*	*10/20/14 23:52*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/20/14 11:15	10/20/14 23:29	1
Barium	0.33	J	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 23:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 23:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 23:29	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:29	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:29	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:29	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 23:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 23:29	1
Manganese	0.36		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:29	1
Nickel	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:29	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/20/14 23:29	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 23:29	1
Zinc	0.054	J ^	0.10	0.020	mg/L		10/20/14 11:15	10/20/14 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.082		0.050	0.010	mg/L		10/17/14 09:30	10/27/14 17:22	1
Barium	0.52		0.50	0.050	mg/L		10/17/14 09:30	10/27/14 17:22	1
Beryllium	0.0073		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 17:22	1
Cadmium	0.0031	J ^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 17:22	1
Chromium	0.16		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:22	1
Cobalt	0.045		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:22	1
Copper	0.24		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:22	1
Iron	180		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 17:22	1
Lead	0.15		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 17:22	1
Manganese	0.73		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:22	1
Nickel	0.20		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:22	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 17:22	1

Client Sample ID: RL-6(0-4)-101314
Date Collected: 10/13/14 08:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:22	1
Zinc	**0.56**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 17:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.49	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Arsenic	**5.3**		0.62	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Barium	**38**		0.62	0.066	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Beryllium	**0.41**		0.25	0.049	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Cadmium	**0.29**		0.12	0.016	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Calcium	**110000**		120	33	mg/Kg	☼	10/23/14 10:30	10/27/14 23:55	10
Chromium	**19**	**B**	0.62	0.071	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Cobalt	**5.2**		0.31	0.062	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Copper	**22**		0.62	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Iron	**11000**		12	5.1	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Lead	**41**		0.31	0.092	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Magnesium	**52000**		6.2	1.3	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Manganese	**240**		0.62	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Nickel	**14**		0.62	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Potassium	**2500**		31	1.9	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Selenium	<0.62		0.62	0.22	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Sodium	**720**		62	8.2	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Thallium	**0.82**		0.62	0.26	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Vanadium	**14**		0.31	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1
Zinc	**59**	**B**	1.2	0.25	mg/Kg	☼	10/23/14 10:30	10/27/14 02:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**46**		19	7.5	ug/Kg	☼	10/17/14 15:00	10/20/14 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.25**		0.200	0.200	SU			10/22/14 17:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-6(4-8)-101314
Date Collected: 10/13/14 09:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-5
Matrix: Solid
Percent Solids: 81.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31		6.2	2.7	ug/Kg	☼		10/16/14 14:44	1
Benzene	<6.2		6.2	0.84	ug/Kg	☼		10/16/14 14:44	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:44	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		10/16/14 14:44	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		10/16/14 14:44	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		10/16/14 14:44	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:44	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		10/16/14 14:44	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		10/16/14 14:44	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		10/16/14 14:44	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 14:44	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		10/16/14 14:44	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		10/16/14 14:44	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:44	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		10/16/14 14:44	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		10/16/14 14:44	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 14:44	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		10/16/14 14:44	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		10/16/14 14:44	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		10/16/14 14:44	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		10/16/14 14:44	1
Methylene Chloride	<6.2	*	6.2	1.7	ug/Kg	☼		10/16/14 14:44	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		10/16/14 14:44	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		10/16/14 14:44	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 14:44	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		10/16/14 14:44	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		10/16/14 14:44	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		10/16/14 14:44	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		10/16/14 14:44	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		10/16/14 14:44	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		10/16/14 14:44	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		10/16/14 14:44	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		10/16/14 14:44	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		10/16/14 14:44	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		10/16/14 14:44	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		10/16/14 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*10/16/14 14:44*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*10/16/14 14:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*		*10/16/14 14:44*	*1*
Toluene-d8 (Surr)	*97*		*75 - 122*		*10/16/14 14:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
1,2-Dichlorobenzene	<190		190	46	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2,2'-oxybis[1-chloropropane]	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-6(4-8)-101314
Date Collected: 10/13/14 09:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-5
Matrix: Solid
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	88	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2,4-Dichlorophenol	<380		380	91	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2,4-Dimethylphenol	<380		380	150	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2,4-Dinitrophenol	<780		780	680	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2,4-Dinitrotoluene	<190		190	61	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2,6-Dinitrotoluene	<190		190	76	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2-Chlorophenol	<190		190	66	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2-Methylnaphthalene	<38		38	7.1	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2-Methylphenol	<190		190	62	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2-Nitroaniline	<190		190	52	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
2-Nitrophenol	<380		380	91	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
3 & 4 Methylphenol	<190		190	64	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
3,3'-Dichlorobenzidine	<190	*	190	54	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
4,6-Dinitro-2-methylphenol	<380		380	310	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
4-Bromophenyl phenyl ether	<190		190	51	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
4-Chloroaniline	<780		780	180	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
4-Chlorophenyl phenyl ether	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
4-Nitroaniline	<380	*	380	160	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
4-Nitrophenol	<780		780	370	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Acenaphthene	<38		38	6.9	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Acenaphthylene	<38		38	5.1	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Anthracene	**6.8**	**J**	38	6.4	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Benzo[a]anthracene	**59**		38	5.2	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Benzo[a]pyrene	**78**		38	7.4	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Benzo[b]fluoranthene	**110**		38	8.3	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Benzo[g,h,i]perylene	**110**		38	12	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Benzo[k]fluoranthene	**35**	**J**	38	11	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Bis(2-chloroethyl)ether	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Bis(2-ethylhexyl) phthalate	<190		190	70	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Butyl benzyl phthalate	<190		190	73	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Carbazole	<190	*	190	99	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Chrysene	**69**		38	10	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Dibenz(a,h)anthracene	**23**	**J**	38	7.4	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Dibenzofuran	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Diethyl phthalate	<190		190	65	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Di-n-butyl phthalate	<190		190	59	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Di-n-octyl phthalate	<190		190	63	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Fluoranthene	**110**		38	7.1	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Fluorene	**8.5**	**J**	38	5.4	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Hexachlorobenzene	<78		78	8.9	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Hexachlorocyclopentadiene	<780		780	220	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Hexachloroethane	<190		190	59	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-6(4-8)-101314
Date Collected: 10/13/14 09:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-5
Matrix: Solid
Percent Solids: 81.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**73**		38	10	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Isophorone	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Naphthalene	<38		38	5.9	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Nitrobenzene	<38		38	9.6	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Pentachlorophenol	<780		780	620	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Phenanthrene	**43**		38	5.4	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Phenol	<190		190	86	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1
Pyrene	**97**		38	7.6	ug/Kg	☼	10/16/14 07:28	10/21/14 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*35 - 137*	*10/16/14 07:28*	*10/21/14 00:13*	*1*
2-Fluorobiphenyl	*53*		*25 - 119*	*10/16/14 07:28*	*10/21/14 00:13*	*1*
2-Fluorophenol	*53*		*25 - 110*	*10/16/14 07:28*	*10/21/14 00:13*	*1*
Nitrobenzene-d5	*55*		*25 - 115*	*10/16/14 07:28*	*10/21/14 00:13*	*1*
Phenol-d5	*51*		*31 - 110*	*10/16/14 07:28*	*10/21/14 00:13*	*1*
Terphenyl-d14	*73*		*36 - 134*	*10/16/14 07:28*	*10/21/14 00:13*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/18/14 09:00	10/28/14 02:25	1
Barium	**0.43**	**J**	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 02:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 02:25	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 02:25	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:25	1
Cobalt	**0.054**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:25	1
Copper	**0.016**	**J**	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:25	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 02:25	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 02:25	1
Manganese	**8.1**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:25	1
Nickel	**0.035**		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:25	1
Selenium	<0.050		0.050	0.020	mg/L		10/18/14 09:00	10/28/14 02:25	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:25	1
Zinc	**0.090**	**J**	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 02:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.049**	**J**	0.050	0.010	mg/L		10/17/14 09:30	10/27/14 17:28	1
Barium	**0.41**	**J**	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 17:28	1
Beryllium	**0.0042**		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 17:28	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 17:28	1
Chromium	**0.085**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:28	1
Cobalt	**0.042**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:28	1
Copper	**0.16**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:28	1
Iron	**100**		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 17:28	1
Lead	**0.22**		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 17:28	1
Manganese	**1.1**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:28	1
Nickel	**0.10**		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:28	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 17:28	1

Client Sample ID: RL-6(4-8)-101314
Date Collected: 10/13/14 09:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 17:28	1
Zinc	**0.36**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 17:28	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.46	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Arsenic	**6.8**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Barium	**60**		0.57	0.061	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Beryllium	**0.54**		0.23	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Cadmium	**0.19**		0.11	0.014	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Calcium	**16000**		11	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Chromium	**16**	**B**	0.57	0.066	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Cobalt	**9.4**		0.29	0.057	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Copper	**22**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Iron	**16000**		11	4.7	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Lead	**24**		0.29	0.085	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Magnesium	**11000**		5.7	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Manganese	**330**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Nickel	**19**		0.57	0.11	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Potassium	**2000**		29	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Sodium	**1100**		57	7.6	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Thallium	**1.5**		0.57	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Vanadium	**22**		0.29	0.042	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1
Zinc	**61**	**B**	1.1	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 02:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**26**		21	8.1	ug/Kg	☼	10/17/14 15:00	10/20/14 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.28**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: RL-4(0-4)-101314
Date Collected: 10/13/14 09:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-8
Matrix: Solid
Percent Solids: 83.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		10/16/14 15:54	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 15:54	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 15:54	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/16/14 15:54	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/16/14 15:54	1
Carbon disulfide	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 15:54	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 15:54	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/16/14 15:54	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 15:54	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/16/14 15:54	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 15:54	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/16/14 15:54	1
cis-1,3-Dichloropropene	<6.0		6.0	0.78	ug/Kg	☼		10/16/14 15:54	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 15:54	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/16/14 15:54	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 15:54	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/16/14 15:54	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/16/14 15:54	1
1,3-Dichloropropene, Total	<6.0		6.0	0.78	ug/Kg	☼		10/16/14 15:54	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 15:54	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/16/14 15:54	1
Methylene Chloride	<6.0	*	6.0	1.6	ug/Kg	☼		10/16/14 15:54	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/16/14 15:54	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 15:54	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 15:54	1
Styrene	<6.0		6.0	0.78	ug/Kg	☼		10/16/14 15:54	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 15:54	1
Tetrachloroethene	<6.0		6.0	0.91	ug/Kg	☼		10/16/14 15:54	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/16/14 15:54	1
trans-1,2-Dichloroethene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 15:54	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 15:54	1
1,1,1-Trichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 15:54	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 15:54	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 15:54	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 15:54	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/16/14 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*		*10/16/14 15:54*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/16/14 15:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*		*10/16/14 15:54*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*10/16/14 15:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	41	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
1,3-Dichlorobenzene	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
1,4-Dichlorobenzene	<190		190	49	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-4(0-4)-101314
Date Collected: 10/13/14 09:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-8
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	<380		380	87	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2,4,6-Trichlorophenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2,4-Dichlorophenol	<380		380	90	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2,4-Dimethylphenol	<380		380	140	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2,4-Dinitrophenol	<760		760	670	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2,6-Dinitrotoluene	<190		190	75	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2-Chlorophenol	<190		190	65	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2-Methylnaphthalene	<38		38	7.0	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2-Methylphenol	<190		190	61	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
2-Nitrophenol	<380		380	90	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
3,3'-Dichlorobenzidine	<190	*	190	53	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
3-Nitroaniline	<380		380	120	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
4,6-Dinitro-2-methylphenol	<380		380	300	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
4-Bromophenyl phenyl ether	<190		190	50	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
4-Chloro-3-methylphenol	<380		380	130	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
4-Nitroaniline	<380	*	380	160	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Acenaphthene	<38		38	6.8	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Acenaphthylene	<38		38	5.0	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Anthracene	**8.5**	**J**	38	6.3	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Benzo[a]anthracene	**56**		38	5.1	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Benzo[a]pyrene	**43**		38	7.3	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Benzo[b]fluoranthene	**57**		38	8.2	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Benzo[g,h,i]perylene	**40**		38	12	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Benzo[k]fluoranthene	**22**	**J**	38	11	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Bis(2-chloroethoxy)methane	<190		190	39	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Butyl benzyl phthalate	<190		190	72	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Carbazole	<190	*	190	98	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Chrysene	**49**		38	10	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Dibenz(a,h)anthracene	**12**	**J**	38	7.3	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Dibenzofuran	<190		190	44	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Dimethyl phthalate	<190		190	50	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Di-n-butyl phthalate	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Di-n-octyl phthalate	<190		190	62	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Fluoranthene	**77**		38	7.0	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Fluorene	<38		38	5.3	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Hexachlorobenzene	<76		76	8.8	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Hexachlorobutadiene	<190		190	60	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Hexachloroethane	<190		190	58	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-4(0-4)-101314
Date Collected: 10/13/14 09:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-8
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	33	J	38	9.8	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Isophorone	<190		190	43	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Naphthalene	<38		38	5.8	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Nitrobenzene	<38		38	9.5	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
N-Nitrosodi-n-propylamine	<190		190	46	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
N-Nitrosodiphenylamine	<190		190	45	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Pentachlorophenol	<760		760	610	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Phenanthrene	31	J	38	5.3	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Phenol	<190		190	84	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1
Pyrene	70		38	7.5	ug/Kg	☼	10/16/14 07:28	10/21/14 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*50*		*35 - 137*	*10/16/14 07:28*	*10/21/14 01:16*	*1*
2-Fluorobiphenyl	*47*		*25 - 119*	*10/16/14 07:28*	*10/21/14 01:16*	*1*
2-Fluorophenol	*43*		*25 - 110*	*10/16/14 07:28*	*10/21/14 01:16*	*1*
Nitrobenzene-d5	*47*		*25 - 115*	*10/16/14 07:28*	*10/21/14 01:16*	*1*
Phenol-d5	*39*		*31 - 110*	*10/16/14 07:28*	*10/21/14 01:16*	*1*
Terphenyl-d14	*73*		*36 - 134*	*10/16/14 07:28*	*10/21/14 01:16*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.011	J	0.050	0.010	mg/L		10/18/14 09:00	10/28/14 02:48	1
Barium	0.35	J	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 02:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 02:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 02:48	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:48	1
Cobalt	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:48	1
Copper	0.012	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:48	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 02:48	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 02:48	1
Manganese	1.2		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:48	1
Nickel	0.010	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:48	1
Selenium	0.021	J	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 02:48	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:48	1
Zinc	0.023	J	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 02:48	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		10/17/14 09:30	10/27/14 18:02	1
Barium	0.25	J	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:02	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:02	1
Chromium	0.035		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:02	1
Cobalt	0.017	J	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:02	1
Copper	0.064		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:02	1
Iron	36		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:02	1
Lead	0.080		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:02	1
Manganese	0.54		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:02	1
Nickel	0.046		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:02	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:02	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-4(0-4)-101314
Date Collected: 10/13/14 09:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:02	1
Zinc	**0.12**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Arsenic	**7.9**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Barium	**45**		0.58	0.062	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Beryllium	**0.59**		0.23	0.046	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Cadmium	**0.11**	**J**	0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Calcium	**28000**		12	3.1	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Chromium	**16**	**B**	0.58	0.067	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Cobalt	**9.7**		0.29	0.058	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Copper	**23**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Iron	**19000**		12	4.8	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Lead	**22**		0.29	0.086	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Magnesium	**15000**		5.8	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Manganese	**350**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Nickel	**23**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Potassium	**2800**		29	1.7	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Sodium	**460**		58	7.8	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Thallium	**1.4**		0.58	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Vanadium	**22**		0.29	0.043	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	1
Zinc	**44**	**B**	1.2	0.23	mg/Kg	☼	10/23/14 10:30	10/27/14 02:56	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		10/20/14 12:30	10/21/14 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 09:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**32**		20	7.8	ug/Kg	☼	10/17/14 15:00	10/20/14 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.25**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: RL-4(4-8)-101314
Date Collected: 10/13/14 09:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-9
Matrix: Solid
Percent Solids: 83.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		10/16/14 16:17	1
Benzene	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 16:17	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 16:17	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		10/16/14 16:17	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		10/16/14 16:17	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 16:17	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 16:17	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		10/16/14 16:17	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 16:17	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		10/16/14 16:17	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 16:17	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		10/16/14 16:17	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 16:17	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		10/16/14 16:17	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		10/16/14 16:17	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		10/16/14 16:17	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		10/16/14 16:17	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		10/16/14 16:17	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 16:17	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 16:17	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		10/16/14 16:17	1
Methylene Chloride	<6.0	*	6.0	1.6	ug/Kg	☼		10/16/14 16:17	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		10/16/14 16:17	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		10/16/14 16:17	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 16:17	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		10/16/14 16:17	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		10/16/14 16:17	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		10/16/14 16:17	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		10/16/14 16:17	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		10/16/14 16:17	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		10/16/14 16:17	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		10/16/14 16:17	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		10/16/14 16:17	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		10/16/14 16:17	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		10/16/14 16:17	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		10/16/14 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*10/16/14 16:17*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*10/16/14 16:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*		*10/16/14 16:17*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*10/16/14 16:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<990		990	210	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
1,2-Dichlorobenzene	<990		990	240	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
1,3-Dichlorobenzene	<990		990	220	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
1,4-Dichlorobenzene	<990		990	250	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2,2'-oxybis[1-chloropropane]	<990		990	230	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-4(4-8)-101314
Date Collected: 10/13/14 09:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-9
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<2000		2000	450	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2,4,6-Trichlorophenol	<2000		2000	680	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2,4-Dichlorophenol	<2000		2000	470	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2,4-Dimethylphenol	<2000		2000	750	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2,4-Dinitrophenol	<4000		4000	3500	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2,4-Dinitrotoluene	<990		990	310	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2,6-Dinitrotoluene	<990		990	390	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2-Chloronaphthalene	<990		990	220	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2-Chlorophenol	<990		990	340	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2-Methylnaphthalene	<200		200	36	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2-Methylphenol	<990		990	320	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2-Nitroaniline	<990		990	270	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
2-Nitrophenol	<2000		2000	470	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
3 & 4 Methylphenol	<990		990	330	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
3,3'-Dichlorobenzidine	<990	*	990	280	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
3-Nitroaniline	<2000		2000	610	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
4,6-Dinitro-2-methylphenol	<2000		2000	1600	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
4-Bromophenyl phenyl ether	<990		990	260	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
4-Chloro-3-methylphenol	<2000		2000	670	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
4-Chloroaniline	<4000		4000	930	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
4-Chlorophenyl phenyl ether	<990		990	230	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
4-Nitroaniline	<2000	*	2000	830	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
4-Nitrophenol	<4000		4000	1900	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Acenaphthene	<200		200	36	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Acenaphthylene	<200		200	26	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Anthracene	**57**	**J**	200	33	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Benzo[a]anthracene	**240**		200	27	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Benzo[a]pyrene	**200**		200	38	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Benzo[b]fluoranthene	**210**		200	43	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Benzo[g,h,i]perylene	**150**	**J**	200	64	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Benzo[k]fluoranthene	**200**		200	58	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Bis(2-chloroethoxy)methane	<990		990	200	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Bis(2-chloroethyl)ether	<990		990	300	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Bis(2-ethylhexyl) phthalate	<990		990	360	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Butyl benzyl phthalate	<990		990	380	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Carbazole	<990	*	990	510	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Chrysene	**220**		200	54	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Dibenz(a,h)anthracene	**73**	**J**	200	38	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Dibenzofuran	<990		990	230	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Diethyl phthalate	<990		990	340	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Dimethyl phthalate	<990		990	260	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Di-n-butyl phthalate	<990		990	300	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Di-n-octyl phthalate	<990		990	320	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Fluoranthene	**410**		200	37	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Fluorene	<200		200	28	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Hexachlorobenzene	<400		400	46	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Hexachlorobutadiene	<990		990	310	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Hexachlorocyclopentadiene	<4000		4000	1100	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Hexachloroethane	<990		990	300	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

Client Sample ID: RL-4(4-8)-101314
Date Collected: 10/13/14 09:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-9
Matrix: Solid
Percent Solids: 83.4

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	120	J	200	51	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Isophorone	<990		990	220	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Naphthalene	<200		200	30	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Nitrobenzene	<200		200	49	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
N-Nitrosodi-n-propylamine	<990		990	240	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
N-Nitrosodiphenylamine	<990		990	230	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Pentachlorophenol	<4000		4000	3200	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Phenanthrene	170	J	200	28	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Phenol	<990		990	440	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5
Pyrene	410		200	39	ug/Kg	☼	10/16/14 07:28	10/23/14 19:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*35 - 137*	*10/16/14 07:28*	*10/23/14 19:11*	*5*
2-Fluorobiphenyl	*51*		*25 - 119*	*10/16/14 07:28*	*10/23/14 19:11*	*5*
2-Fluorophenol	*56*		*25 - 110*	*10/16/14 07:28*	*10/23/14 19:11*	*5*
Nitrobenzene-d5	*51*		*25 - 115*	*10/16/14 07:28*	*10/23/14 19:11*	*5*
Phenol-d5	*40*		*31 - 110*	*10/16/14 07:28*	*10/23/14 19:11*	*5*
Terphenyl-d14	*64*		*36 - 134*	*10/16/14 07:28*	*10/23/14 19:11*	*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		10/18/14 09:00	10/28/14 02:53	1
Barium	0.32	J	0.50	0.050	mg/L		10/18/14 09:00	10/28/14 02:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/18/14 09:00	10/28/14 02:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/18/14 09:00	10/28/14 02:53	1
Chromium	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:53	1
Cobalt	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:53	1
Copper	0.014	J	0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:53	1
Iron	<0.20		0.20	0.20	mg/L		10/18/14 09:00	10/28/14 02:53	1
Lead	<0.0075	^	0.0075	0.0075	mg/L		10/18/14 09:00	10/28/14 02:53	1
Manganese	0.25		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:53	1
Nickel	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:53	1
Selenium	0.020	J	0.050	0.020	mg/L		10/18/14 09:00	10/28/14 02:53	1
Silver	<0.025		0.025	0.010	mg/L		10/18/14 09:00	10/28/14 02:53	1
Zinc	0.068	J	0.10	0.020	mg/L		10/18/14 09:00	10/28/14 02:53	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		10/17/14 09:30	10/27/14 18:08	1
Barium	0.16	J	0.50	0.050	mg/L		10/17/14 09:30	10/27/14 18:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/17/14 09:30	10/27/14 18:08	1
Cadmium	<0.0050	^	0.0050	0.0020	mg/L		10/17/14 09:30	10/27/14 18:08	1
Chromium	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:08	1
Cobalt	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:08	1
Copper	0.030		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:08	1
Iron	6.9		0.20	0.20	mg/L		10/17/14 09:30	10/27/14 18:08	1
Lead	0.067		0.0075	0.0075	mg/L		10/17/14 09:30	10/27/14 18:08	1
Manganese	0.30		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:08	1
Nickel	0.013	J	0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:08	1
Selenium	<0.050		0.050	0.020	mg/L		10/17/14 09:30	10/27/14 18:08	1

Client Sample ID: RL-4(4-8)-101314
Date Collected: 10/13/14 09:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85946-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/17/14 09:30	10/27/14 18:08	1
Zinc	**0.14**		0.10	0.020	mg/L		10/17/14 09:30	10/27/14 18:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Arsenic	**10**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Barium	**50**		0.58	0.062	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Beryllium	**0.61**		0.23	0.047	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Cadmium	**0.13**		0.12	0.015	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Calcium	**21000**		12	3.2	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Chromium	**16**	**B**	0.58	0.068	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Cobalt	**10**		0.29	0.058	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Copper	**25**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Iron	**20000**		12	4.8	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Lead	**29**		0.29	0.087	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Magnesium	**13000**		5.8	1.2	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Manganese	**350**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Nickel	**24**		0.58	0.12	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Potassium	**2500**		29	1.8	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Sodium	**530**		58	7.8	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Thallium	**1.6**		0.58	0.25	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Vanadium	**22**		0.29	0.043	mg/Kg	☼	10/23/14 10:30	10/27/14 03:02	1
Zinc	**76**	**B**	1.2	0.24	mg/Kg	☼	10/23/14 10:30	10/27/14 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		10/20/14 12:30	10/21/14 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/17/14 12:20	10/20/14 10:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**43**		20	7.7	ug/Kg	☼	10/17/14 15:00	10/20/14 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.18**		0.200	0.200	SU			10/22/14 17:14	1

Certification Summary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85946-1

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	04-30-15

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

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

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-85946 COC

(optional)

Report To
Contact: S. Balaswamy Kumar
Company: Weston Solutions
Address: 300 Plaza Circle, Ste 202
Address: Mundelein, IL 60060
Phone: 224-864-7250
Fax: 224-864-7230
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-85946
Chain of Custody Number:
Page 1 of 3
Temperature °C of Cooler: 21/2.3

Client	Client Project #
Weston	
Project Name: IDOT-089	
Project Location/State: Willowbrook / IL	Lab Project #
Sampler: T. Walls	Lab PM: D. Wright

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					
1		RL-7(0-4)-101314	10-13-14	0835	2	S		X	X	X	X	X					
2		RL-7(4-8)-101314		0840													
3		RL-7(4-8)-101314D		0840													
4		RL-6(0-4)-101314		0855													
5		RL-6(4-8)-101314		0900													
6		RL-5(0-4)-101314		0915													
7		RL-5(4-8)-101314		0920													
8		RL-4(0-4)-101314		0935													
9		RL-4(4-8)-101314		0940													
10		VL-2(0-4)-101314	10-13-14	1045	2	S		X	X	X	X	X					

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

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Timothy A. Walls	Weston	10-13-14	1530	[illegible]	TA	10/13/14	1535
[illegible]	TA	10/13/14	1627	[illegible]	TA-CAL	10/14/14	0710

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: 500-85947-1
Client Project/Site: IDOT - Willowbrook - WO 089

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

Attn: Mr. S. Babusukumar

Authorized for release by:
10/28/2014 2:38:42 PM

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

Client Sample ID: RL-1(0-4)-101314
Date Collected: 10/13/14 13:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-4
Matrix: Solid
Percent Solids: 86.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		10/23/14 10:32	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		10/23/14 10:32	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		10/23/14 10:32	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/23/14 10:32	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		10/23/14 10:32	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		10/23/14 10:32	1
Carbon tetrachloride	<5.8		5.8	1.0	ug/Kg	☼		10/23/14 10:32	1
Chlorobenzene	<5.8		5.8	0.58	ug/Kg	☼		10/23/14 10:32	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		10/23/14 10:32	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		10/23/14 10:32	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/23/14 10:32	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		10/23/14 10:32	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		10/23/14 10:32	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/23/14 10:32	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		10/23/14 10:32	1
1,2-Dichloroethane	<5.8		5.8	0.85	ug/Kg	☼		10/23/14 10:32	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		10/23/14 10:32	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		10/23/14 10:32	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		10/23/14 10:32	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/23/14 10:32	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/23/14 10:32	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/23/14 10:32	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/23/14 10:32	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/23/14 10:32	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		10/23/14 10:32	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		10/23/14 10:32	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/23/14 10:32	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		10/23/14 10:32	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		10/23/14 10:32	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		10/23/14 10:32	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/23/14 10:32	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/23/14 10:32	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		10/23/14 10:32	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		10/23/14 10:32	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/23/14 10:32	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		10/23/14 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*		*10/23/14 10:32*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/23/14 10:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*		*10/23/14 10:32*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*		*10/23/14 10:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-1(0-4)-101314
Date Collected: 10/13/14 13:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-4
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	☼	10/15/14 18:12	10/20/14 15:36	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2-Methylphenol	<190		190	59	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
3-Nitroaniline	<370		370	110	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
4,6-Dinitro-2-methylphenol	<370	*	370	300	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Carbazole	<190		190	96	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Chrysene	<37		37	10	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Dibenzofuran	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Di-n-butyl phthalate	<190		190	56	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Di-n-octyl phthalate	<190		190	60	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Fluorene	<37		37	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Hexachloroethane	<190		190	56	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-1(0-4)-101314
Date Collected: 10/13/14 13:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-4
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	<37		37	9.6	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Isophorone	<190		190	42	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Naphthalene	<37		37	5.7	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
N-Nitrosodi-n-propylamine	<190	*	190	45	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Pentachlorophenol	<750		750	590	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Phenol	<190		190	82	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/15/14 18:12	10/20/14 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*37*		*35 - 137*	*10/15/14 18:12*	*10/20/14 15:36*	*1*
2-Fluorobiphenyl	*65*		*25 - 119*	*10/15/14 18:12*	*10/20/14 15:36*	*1*
2-Fluorophenol	*57*		*25 - 110*	*10/15/14 18:12*	*10/20/14 15:36*	*1*
Nitrobenzene-d5	*40*		*25 - 115*	*10/15/14 18:12*	*10/20/14 15:36*	*1*
Phenol-d5	*50*		*31 - 110*	*10/15/14 18:12*	*10/20/14 15:36*	*1*
Terphenyl-d14	*66*		*36 - 134*	*10/15/14 18:12*	*10/20/14 15:36*	*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		10/20/14 11:15	10/20/14 21:59	1
Barium	**0.27**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 21:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 21:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 21:59	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:59	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:59	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:59	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 21:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 21:59	1
Manganese	**0.21**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:59	1
Nickel	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:59	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 18:01	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 21:59	1
Zinc	<0.10		0.10	0.020	mg/L		10/20/14 11:15	10/20/14 21:59	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		10/20/14 11:10	10/26/14 17:21	1
Barium	**0.18**	**J**	0.50	0.050	mg/L		10/20/14 11:10	10/26/14 17:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 17:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 17:21	1
Chromium	**0.069**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:21	1
Cobalt	**0.023**	**J**	0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:21	1
Copper	**0.099**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:21	1
Iron	**77**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 17:21	1
Lead	**0.038**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 17:21	1
Manganese	**0.32**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:21	1
Nickel	**0.088**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:21	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 17:21	1

Client Sample ID: RL-1(0-4)-101314
Date Collected: 10/13/14 13:35
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:21	1
Zinc	**0.24**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 17:21	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.43	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Arsenic	**8.0**		0.54	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Barium	**39**		0.54	0.058	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Beryllium	**0.59**		0.22	0.043	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Cadmium	**0.12**		0.11	0.014	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Calcium	**34000**		11	2.9	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Chromium	**17**		0.54	0.063	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Cobalt	**12**		0.27	0.054	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Copper	**27**		0.54	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Iron	**20000**		11	4.4	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Lead	**13**	**B**	0.27	0.080	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Magnesium	**20000**		5.4	1.1	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Manganese	**420**		0.54	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Nickel	**30**		0.54	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Potassium	**2900**		27	1.6	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Selenium	<0.54	L	0.54	0.19	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Sodium	**260**		54	7.2	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Thallium	**1.5**		0.54	0.23	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Vanadium	**19**		0.27	0.040	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1
Zinc	**48**	**B**	1.1	0.22	mg/Kg	☼	10/24/14 10:00	10/27/14 05:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**40**	**B**	18	7.0	ug/Kg	☼	10/17/14 15:00	10/20/14 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.83**		0.200	0.200	SU			10/22/14 17:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-1(4-8)-101314
Date Collected: 10/13/14 13:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-5
Matrix: Solid
Percent Solids: 88.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.4	ug/Kg	☼		10/23/14 10:56	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		10/23/14 10:56	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		10/23/14 10:56	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		10/23/14 10:56	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		10/23/14 10:56	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		10/23/14 10:56	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		10/23/14 10:56	1
Chlorobenzene	<5.7		5.7	0.57	ug/Kg	☼		10/23/14 10:56	1
Chloroethane	<5.7		5.7	1.5	ug/Kg	☼		10/23/14 10:56	1
Chloroform	<5.7		5.7	0.65	ug/Kg	☼		10/23/14 10:56	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		10/23/14 10:56	1
cis-1,2-Dichloroethene	<5.7		5.7	0.80	ug/Kg	☼		10/23/14 10:56	1
cis-1,3-Dichloropropene	<5.7		5.7	0.74	ug/Kg	☼		10/23/14 10:56	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	☼		10/23/14 10:56	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		10/23/14 10:56	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		10/23/14 10:56	1
1,1-Dichloroethene	<5.7		5.7	0.91	ug/Kg	☼		10/23/14 10:56	1
1,2-Dichloropropane	<5.7		5.7	0.86	ug/Kg	☼		10/23/14 10:56	1
1,3-Dichloropropene, Total	<5.7		5.7	0.74	ug/Kg	☼		10/23/14 10:56	1
Ethylbenzene	<5.7		5.7	1.1	ug/Kg	☼		10/23/14 10:56	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		10/23/14 10:56	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		10/23/14 10:56	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		10/23/14 10:56	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		10/23/14 10:56	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	☼		10/23/14 10:56	1
Styrene	<5.7		5.7	0.74	ug/Kg	☼		10/23/14 10:56	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.1	ug/Kg	☼		10/23/14 10:56	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		10/23/14 10:56	1
Toluene	<5.7		5.7	0.79	ug/Kg	☼		10/23/14 10:56	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	☼		10/23/14 10:56	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		10/23/14 10:56	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		10/23/14 10:56	1
1,1,2-Trichloroethane	<5.7		5.7	0.77	ug/Kg	☼		10/23/14 10:56	1
Trichloroethene	<5.7		5.7	0.93	ug/Kg	☼		10/23/14 10:56	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		10/23/14 10:56	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		10/23/14 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*		*10/23/14 10:56*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*10/23/14 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*10/23/14 10:56*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*		*10/23/14 10:56*	*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	☼	10/15/14 18:12	10/20/14 16:00	1
1,2-Dichlorobenzene	<190		190	45	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2,2'-oxybis[1-chloropropane]	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-1(4-8)-101314
Date Collected: 10/13/14 13:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-5
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	86	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2,4-Dichlorophenol	<370		370	89	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2,4-Dinitrophenol	<760	*	760	660	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2,4-Dinitrotoluene	<190		190	60	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2,6-Dinitrotoluene	<190		190	74	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2-Chlorophenol	<190		190	64	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2-Methylnaphthalene	<37		37	6.9	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2-Nitroaniline	<190		190	51	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
2-Nitrophenol	<370		370	89	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
3 & 4 Methylphenol	<190		190	63	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
3,3'-Dichlorobenzidine	<190		190	53	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
4,6-Dinitro-2-methylphenol	<370	*	370	300	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
4-Chloroaniline	<760		760	180	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
4-Chlorophenyl phenyl ether	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
4-Nitrophenol	<760		760	360	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Anthracene	<37		37	6.3	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Benzo[a]anthracene	<37		37	5.1	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Benzo[a]pyrene	<37		37	7.3	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Benzo[b]fluoranthene	<37		37	8.1	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Bis(2-ethylhexyl) phthalate	<190		190	69	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Carbazole	<190		190	97	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Chrysene	<37		37	10	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Dibenz(a,h)anthracene	<37		37	7.3	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Dibenzofuran	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Fluoranthene	<37		37	7.0	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Fluorene	<37		37	5.3	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Hexachlorobenzene	<76		76	8.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Hexachlorobutadiene	<190		190	59	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Hexachlorocyclopentadiene	<760		760	220	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Hexachloroethane	<190		190	57	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-1(4-8)-101314
Date Collected: 10/13/14 13:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-5
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	<37		37	9.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Isophorone	<190		190	42	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Naphthalene	<37		37	5.8	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Nitrobenzene	<37		37	9.4	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
N-Nitrosodi-n-propylamine	<190	*	190	46	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Pentachlorophenol	<760		760	600	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Phenol	<190		190	83	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1
Pyrene	<37		37	7.5	ug/Kg	☼	10/15/14 18:12	10/20/14 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*35 - 137*	*10/15/14 18:12*	*10/20/14 16:00*	*1*
2-Fluorobiphenyl	*78*		*25 - 119*	*10/15/14 18:12*	*10/20/14 16:00*	*1*
2-Fluorophenol	*67*		*25 - 110*	*10/15/14 18:12*	*10/20/14 16:00*	*1*
Nitrobenzene-d5	*48*		*25 - 115*	*10/15/14 18:12*	*10/20/14 16:00*	*1*
Phenol-d5	*58*		*31 - 110*	*10/15/14 18:12*	*10/20/14 16:00*	*1*
Terphenyl-d14	*78*		*36 - 134*	*10/15/14 18:12*	*10/20/14 16:00*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/20/14 11:15	10/20/14 22:27	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 22:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 22:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 22:27	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:27	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:27	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:27	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 22:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 22:27	1
Manganese	**0.14**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:27	1
Nickel	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:27	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 18:22	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:27	1
Zinc	<0.10	^	0.10	0.020	mg/L		10/20/14 11:15	10/20/14 22:27	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		10/20/14 11:10	10/26/14 17:27	1
Barium	**0.089**	**J**	0.50	0.050	mg/L		10/20/14 11:10	10/26/14 17:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 17:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 17:27	1
Chromium	**0.032**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:27	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:27	1
Copper	**0.046**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:27	1
Iron	**35**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 17:27	1
Lead	**0.014**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 17:27	1
Manganese	**0.11**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:27	1
Nickel	**0.035**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:27	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 17:27	1

Client Sample ID: RL-1(4-8)-101314
Date Collected: 10/13/14 13:40
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 17:27	1
Zinc	**0.091**	**J B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 17:27	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Arsenic	**13**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Barium	**47**		0.56	0.060	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Beryllium	**0.66**		0.23	0.045	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Cadmium	**0.047**	**J**	0.11	0.014	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Calcium	**13000**		11	3.1	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Chromium	**16**		0.56	0.065	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Cobalt	**12**		0.28	0.056	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Copper	**40**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Iron	**25000**		11	4.6	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Lead	**17**	**B**	0.28	0.084	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Magnesium	**11000**		5.6	1.2	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Manganese	**440**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Nickel	**37**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Potassium	**2000**		28	1.7	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Sodium	**240**		56	7.6	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Thallium	**1.8**		0.56	0.24	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Vanadium	**21**		0.28	0.042	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	1
Zinc	**52**	**B**	1.1	0.23	mg/Kg	☼	10/24/14 10:00	10/27/14 05:27	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		10/20/14 12:30	10/21/14 09:48	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		10/20/14 12:30	10/21/14 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**39**	**B**	19	7.4	ug/Kg	☼	10/17/14 15:00	10/20/14 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.50**		0.200	0.200	SU			10/22/14 17:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-2(0-4)-101314
Date Collected: 10/13/14 13:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-6
Matrix: Solid
Percent Solids: 82.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	☼		10/23/14 11:20	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		10/23/14 11:20	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		10/23/14 11:20	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		10/23/14 11:20	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		10/23/14 11:20	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		10/23/14 11:20	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		10/23/14 11:20	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		10/23/14 11:20	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		10/23/14 11:20	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		10/23/14 11:20	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		10/23/14 11:20	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		10/23/14 11:20	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		10/23/14 11:20	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		10/23/14 11:20	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		10/23/14 11:20	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		10/23/14 11:20	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		10/23/14 11:20	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		10/23/14 11:20	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		10/23/14 11:20	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		10/23/14 11:20	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		10/23/14 11:20	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		10/23/14 11:20	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		10/23/14 11:20	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		10/23/14 11:20	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		10/23/14 11:20	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		10/23/14 11:20	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		10/23/14 11:20	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		10/23/14 11:20	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		10/23/14 11:20	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		10/23/14 11:20	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		10/23/14 11:20	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		10/23/14 11:20	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		10/23/14 11:20	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		10/23/14 11:20	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		10/23/14 11:20	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		10/23/14 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 122*		*10/23/14 11:20*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*10/23/14 11:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*10/23/14 11:20*	*1*
Toluene-d8 (Surr)	*96*		*75 - 122*		*10/23/14 11:20*	*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	☼	10/15/14 18:12	10/20/14 16:24	1
1,2-Dichlorobenzene	<200		200	48	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
1,3-Dichlorobenzene	<200		200	45	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
1,4-Dichlorobenzene	<200		200	52	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2,2'-oxybis[1-chloropropane]	<200		200	47	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-2(0-4)-101314
Date Collected: 10/13/14 13:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-6
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	92	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2,4,6-Trichlorophenol	<400		400	140	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2,4-Dichlorophenol	<400		400	96	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2,4-Dimethylphenol	<400		400	150	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2,4-Dinitrophenol	<810	*	810	710	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2,4-Dinitrotoluene	<200		200	64	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2,6-Dinitrotoluene	<200		200	79	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2-Chlorophenol	<200		200	69	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2-Methylnaphthalene	<40		40	7.4	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2-Methylphenol	<200		200	65	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2-Nitroaniline	<200		200	54	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
2-Nitrophenol	<400		400	95	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
3 & 4 Methylphenol	<200		200	67	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
3,3'-Dichlorobenzidine	<200		200	56	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
3-Nitroaniline	<400		400	120	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
4,6-Dinitro-2-methylphenol	<400	*	400	320	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
4-Bromophenyl phenyl ether	<200		200	53	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
4-Chloro-3-methylphenol	<400		400	140	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
4-Chloroaniline	<810		810	190	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
4-Chlorophenyl phenyl ether	<200		200	47	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
4-Nitroaniline	<400		400	170	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
4-Nitrophenol	<810		810	380	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Acenaphthene	<40		40	7.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Acenaphthylene	<40		40	5.3	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Anthracene	<40		40	6.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Benzo[a]anthracene	<40		40	5.4	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Benzo[a]pyrene	<40		40	7.8	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Benzo[b]fluoranthene	<40		40	8.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Benzo[k]fluoranthene	<40		40	12	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Bis(2-chloroethoxy)methane	<200		200	41	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Bis(2-chloroethyl)ether	<200		200	60	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Bis(2-ethylhexyl) phthalate	<200		200	74	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Butyl benzyl phthalate	<200		200	77	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Carbazole	<200		200	100	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Chrysene	<40		40	11	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Dibenz(a,h)anthracene	<40		40	7.8	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Dibenzofuran	<200		200	47	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Diethyl phthalate	<200		200	68	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Dimethyl phthalate	<200		200	53	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Di-n-butyl phthalate	<200		200	61	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Di-n-octyl phthalate	<200		200	66	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Fluoranthene	<40		40	7.5	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Fluorene	<40		40	5.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Hexachlorobenzene	<81		81	9.3	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Hexachlorobutadiene	<200		200	63	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Hexachlorocyclopentadiene	<810		810	230	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Hexachloroethane	<200		200	61	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-2(0-4)-101314
Date Collected: 10/13/14 13:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-6
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	10	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Isophorone	<200		200	45	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Naphthalene	<40		40	6.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Nitrobenzene	<40		40	10	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
N-Nitrosodi-n-propylamine	<200	*	200	49	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
N-Nitrosodiphenylamine	<200		200	47	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Pentachlorophenol	<810		810	650	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Phenanthrene	<40		40	5.6	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Phenol	<200		200	89	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1
Pyrene	<40		40	8.0	ug/Kg	☼	10/15/14 18:12	10/20/14 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*35 - 137*	*10/15/14 18:12*	*10/20/14 16:24*	*1*
2-Fluorobiphenyl	*60*		*25 - 119*	*10/15/14 18:12*	*10/20/14 16:24*	*1*
2-Fluorophenol	*49*		*25 - 110*	*10/15/14 18:12*	*10/20/14 16:24*	*1*
Nitrobenzene-d5	*37*		*25 - 115*	*10/15/14 18:12*	*10/20/14 16:24*	*1*
Phenol-d5	*44*		*31 - 110*	*10/15/14 18:12*	*10/20/14 16:24*	*1*
Terphenyl-d14	*72*		*36 - 134*	*10/15/14 18:12*	*10/20/14 16:24*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/20/14 11:15	10/20/14 22:32	1
Barium	**0.18**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 22:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 22:32	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 22:32	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:32	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:32	1
Copper	**0.014**	**J**	0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:32	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 22:32	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 22:32	1
Manganese	**0.046**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:32	1
Nickel	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:32	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 18:39	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:32	1
Zinc	**0.028**	**J B ^**	0.10	0.020	mg/L		10/20/14 11:15	10/20/14 22:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.081**		0.050	0.010	mg/L		10/20/14 11:10	10/26/14 18:07	1
Barium	**0.42**	**J**	0.50	0.050	mg/L		10/20/14 11:10	10/26/14 18:07	1
Beryllium	**0.0061**		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 18:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 18:07	1
Chromium	**0.13**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:07	1
Cobalt	**0.034**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:07	1
Copper	**0.23**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:07	1
Iron	**200**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 18:07	1
Lead	**0.072**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 18:07	1
Manganese	**0.85**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:07	1
Nickel	**0.18**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:07	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 18:07	1

Client Sample ID: RL-2(0-4)-101314
Date Collected: 10/13/14 13:55
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:07	1
Zinc	**0.38**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 18:07	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.47	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Arsenic	**8.3**		0.59	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Barium	**56**		0.59	0.063	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Beryllium	**0.56**		0.23	0.047	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Cadmium	<0.12		0.12	0.015	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Calcium	**2100**		12	3.2	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Chromium	**16**		0.59	0.068	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Cobalt	**9.2**		0.29	0.059	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Copper	**18**		0.59	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Iron	**19000**		12	4.8	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Lead	**16**	**B**	0.29	0.087	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Magnesium	**2900**		5.9	1.2	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Manganese	**280**		0.59	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Nickel	**18**		0.59	0.12	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Potassium	**1400**		29	1.8	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Selenium	**0.36**	**J**	0.59	0.21	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Sodium	**500**		59	7.9	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Thallium	**1.2**		0.59	0.25	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Vanadium	**24**		0.29	0.043	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	1
Zinc	**45**	**B**	1.2	0.24	mg/Kg	☼	10/24/14 10:00	10/27/14 05:33	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		10/20/14 12:30	10/21/14 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.32**		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**52**	**B**	20	7.8	ug/Kg	☼	10/17/14 15:00	10/20/14 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.31**		0.200	0.200	SU			10/22/14 17:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-2(4-8)-101314
Date Collected: 10/13/14 14:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-7
Matrix: Solid
Percent Solids: 85.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		10/21/14 20:06	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		10/21/14 20:06	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/21/14 20:06	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		10/21/14 20:06	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		10/21/14 20:06	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		10/21/14 20:06	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		10/21/14 20:06	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		10/21/14 20:06	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		10/21/14 20:06	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		10/21/14 20:06	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		10/21/14 20:06	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		10/21/14 20:06	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		10/21/14 20:06	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		10/21/14 20:06	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		10/21/14 20:06	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		10/21/14 20:06	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		10/21/14 20:06	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		10/21/14 20:06	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		10/21/14 20:06	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		10/21/14 20:06	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		10/21/14 20:06	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		10/21/14 20:06	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		10/21/14 20:06	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		10/21/14 20:06	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		10/21/14 20:06	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		10/21/14 20:06	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		10/21/14 20:06	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		10/21/14 20:06	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		10/21/14 20:06	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		10/21/14 20:06	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		10/21/14 20:06	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		10/21/14 20:06	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		10/21/14 20:06	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		10/21/14 20:06	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		10/21/14 20:06	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/21/14 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 122*		*10/21/14 20:06*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*10/21/14 20:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*		*10/21/14 20:06*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*		*10/21/14 20:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	40	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
1,2-Dichlorobenzene	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
1,3-Dichlorobenzene	<190		190	42	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
1,4-Dichlorobenzene	<190		190	48	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-2(4-8)-101314
Date Collected: 10/13/14 14:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-7
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	85	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2,4,6-Trichlorophenol	<370		370	130	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2,4-Dichlorophenol	<370		370	88	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2,4-Dimethylphenol	<370		370	140	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2,4-Dinitrophenol	<750	*	750	650	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2,6-Dinitrotoluene	<190		190	73	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2-Chloronaphthalene	<190		190	41	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2-Chlorophenol	<190		190	63	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2-Methylnaphthalene	<37		37	6.8	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2-Methylphenol	<190		190	60	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2-Nitroaniline	<190		190	50	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
2-Nitrophenol	<370		370	88	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
3 & 4 Methylphenol	<190		190	62	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
3,3'-Dichlorobenzidine	<190		190	52	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
3-Nitroaniline	<370		370	120	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
4,6-Dinitro-2-methylphenol	<370	*	370	300	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
4-Bromophenyl phenyl ether	<190		190	49	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
4-Chloro-3-methylphenol	<370		370	130	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
4-Chloroaniline	<750		750	170	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
4-Chlorophenyl phenyl ether	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
4-Nitroaniline	<370		370	160	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
4-Nitrophenol	<750		750	350	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Acenaphthene	<37		37	6.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Acenaphthylene	<37		37	4.9	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Anthracene	<37		37	6.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Benzo[a]anthracene	<37		37	5.0	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Benzo[a]pyrene	<37		37	7.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Benzo[b]fluoranthene	<37		37	8.0	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Benzo[k]fluoranthene	<37		37	11	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Bis(2-chloroethoxy)methane	<190		190	38	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Bis(2-ethylhexyl) phthalate	<190		190	68	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Butyl benzyl phthalate	<190		190	71	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Carbazole	<190		190	96	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Chrysene	<37		37	10	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Dibenz(a,h)anthracene	<37		37	7.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Dibenzofuran	<190		190	43	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Diethyl phthalate	<190		190	63	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Dimethyl phthalate	<190		190	49	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Di-n-butyl phthalate	<190		190	57	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Di-n-octyl phthalate	<190		190	61	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Fluoranthene	<37		37	6.9	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Fluorene	<37		37	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Hexachlorobenzene	<75		75	8.6	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Hexachlorobutadiene	<190		190	58	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Hexachlorocyclopentadiene	<750		750	210	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Hexachloroethane	<190		190	56	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1

Client Sample ID: RL-2(4-8)-101314
Date Collected: 10/13/14 14:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-7
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	9.6	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Isophorone	<190		190	42	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Naphthalene	<37		37	5.7	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Nitrobenzene	<37		37	9.3	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
N-Nitrosodi-n-propylamine	<190	*	190	45	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
N-Nitrosodiphenylamine	<190		190	44	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Pentachlorophenol	<750		750	600	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Phenanthrene	<37		37	5.2	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Phenol	<190		190	82	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1
Pyrene	<37		37	7.4	ug/Kg	☼	10/15/14 18:12	10/20/14 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*35 - 137*	*10/15/14 18:12*	*10/20/14 16:48*	*1*
2-Fluorobiphenyl	*65*		*25 - 119*	*10/15/14 18:12*	*10/20/14 16:48*	*1*
2-Fluorophenol	*58*		*25 - 110*	*10/15/14 18:12*	*10/20/14 16:48*	*1*
Nitrobenzene-d5	*48*		*25 - 115*	*10/15/14 18:12*	*10/20/14 16:48*	*1*
Phenol-d5	*54*		*31 - 110*	*10/15/14 18:12*	*10/20/14 16:48*	*1*
Terphenyl-d14	*69*		*36 - 134*	*10/15/14 18:12*	*10/20/14 16:48*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/20/14 11:15	10/20/14 22:37	1
Barium	**0.38**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 22:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 22:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 22:37	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:37	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:37	1
Copper	**0.021**	**J**	0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:37	1
Iron	<0.20		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 22:37	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 22:37	1
Manganese	**0.32**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:37	1
Nickel	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:37	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 18:44	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:37	1
Zinc	**0.11**	**B**	0.10	0.020	mg/L		10/20/14 11:15	10/21/14 18:44	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		10/20/14 11:10	10/26/14 18:13	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		10/20/14 11:10	10/26/14 18:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 18:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 18:13	1
Chromium	**0.077**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:13	1
Cobalt	**0.021**	**J**	0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:13	1
Copper	**0.085**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:13	1
Iron	**77**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 18:13	1
Lead	**0.032**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 18:13	1
Manganese	**0.30**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:13	1
Nickel	**0.089**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:13	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 18:13	1

Client Sample ID: RL-2(4-8)-101314
Date Collected: 10/13/14 14:00
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:13	1
Zinc	**0.20**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 18:13	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.44	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Arsenic	**9.4**		0.55	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Barium	**35**		0.55	0.059	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Beryllium	**0.58**		0.22	0.044	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Cadmium	**0.072**	**J**	0.11	0.014	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Calcium	**33000**		11	3.0	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Chromium	**16**		0.55	0.064	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Cobalt	**9.0**		0.27	0.055	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Copper	**30**		0.55	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Iron	**20000**		11	4.5	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Lead	**14**	**B**	0.27	0.082	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Magnesium	**21000**		5.5	1.1	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Manganese	**250**		0.55	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Nickel	**26**		0.55	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Potassium	**2900**		27	1.7	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Selenium	<0.55	L	0.55	0.19	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Sodium	**350**		55	7.3	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Thallium	**1.6**		0.55	0.23	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Vanadium	**19**		0.27	0.041	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1
Zinc	**46**	**B**	1.1	0.22	mg/Kg	☼	10/24/14 10:00	10/27/14 05:39	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**37**	**B**	19	7.5	ug/Kg	☼	10/17/14 15:00	10/20/14 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.52**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: RL-3(0-4)-101314
Date Collected: 10/13/14 14:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-8
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		10/16/14 17:22	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		10/16/14 17:22	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/16/14 17:22	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		10/16/14 17:22	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		10/16/14 17:22	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		10/16/14 17:22	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		10/16/14 17:22	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		10/16/14 17:22	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		10/16/14 17:22	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		10/16/14 17:22	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		10/16/14 17:22	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		10/16/14 17:22	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		10/16/14 17:22	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		10/16/14 17:22	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		10/16/14 17:22	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		10/16/14 17:22	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		10/16/14 17:22	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		10/16/14 17:22	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		10/16/14 17:22	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		10/16/14 17:22	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		10/16/14 17:22	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		10/16/14 17:22	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		10/16/14 17:22	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		10/16/14 17:22	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		10/16/14 17:22	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		10/16/14 17:22	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		10/16/14 17:22	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		10/16/14 17:22	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		10/16/14 17:22	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		10/16/14 17:22	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		10/16/14 17:22	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		10/16/14 17:22	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		10/16/14 17:22	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		10/16/14 17:22	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		10/16/14 17:22	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		10/16/14 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 122*		*10/16/14 17:22*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*10/16/14 17:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*		*10/16/14 17:22*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*10/16/14 17:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
1,2-Dichlorobenzene	<180		180	44	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
1,3-Dichlorobenzene	<180		180	41	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
1,4-Dichlorobenzene	<180		180	47	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2,2'-oxybis[1-chloropropane]	<180		180	42	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-3(0-4)-101314
Date Collected: 10/13/14 14:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-8
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	83	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2,4,6-Trichlorophenol	<360		360	130	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2,4-Dichlorophenol	<360		360	87	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2,4-Dimethylphenol	<360		360	140	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2,4-Dinitrophenol	<740	*	740	640	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2,4-Dinitrotoluene	<180		180	58	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2,6-Dinitrotoluene	<180		180	72	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2-Chlorophenol	<180		180	62	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2-Methylnaphthalene	<36		36	6.7	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2-Methylphenol	<180		180	59	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2-Nitroaniline	<180		180	49	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
2-Nitrophenol	<360		360	86	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
3 & 4 Methylphenol	<180		180	61	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
3,3'-Dichlorobenzidine	<180		180	51	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
3-Nitroaniline	<360		360	110	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
4,6-Dinitro-2-methylphenol	<360	*	360	290	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
4-Bromophenyl phenyl ether	<180		180	48	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
4-Chloro-3-methylphenol	<360		360	120	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
4-Chloroaniline	<740		740	170	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
4-Chlorophenyl phenyl ether	<180		180	43	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
4-Nitroaniline	<360		360	150	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
4-Nitrophenol	<740		740	350	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Acenaphthene	<36		36	6.6	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Acenaphthylene	<36		36	4.8	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Anthracene	<36		36	6.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Benzo[a]anthracene	**31**	**J**	36	4.9	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Benzo[a]pyrene	**36**		36	7.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Benzo[b]fluoranthene	**54**		36	7.9	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Benzo[g,h,i]perylene	**31**	**J**	36	12	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Benzo[k]fluoranthene	**26**	**J**	36	11	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Bis(2-chloroethoxy)methane	<180		180	37	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Bis(2-chloroethyl)ether	<180		180	55	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Bis(2-ethylhexyl) phthalate	<180		180	67	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Butyl benzyl phthalate	<180		180	70	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Carbazole	<180		180	94	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Chrysene	**40**		36	10	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Dibenz(a,h)anthracene	**9.2**	**J**	36	7.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Dibenzofuran	<180		180	43	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Diethyl phthalate	<180		180	62	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Dimethyl phthalate	<180		180	48	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Di-n-butyl phthalate	<180		180	56	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Di-n-octyl phthalate	<180		180	60	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Fluoranthene	**48**		36	6.8	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Fluorene	<36		36	5.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Hexachlorobenzene	<74		74	8.5	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Hexachlorobutadiene	<180		180	57	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Hexachlorocyclopentadiene	<740		740	210	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Hexachloroethane	<180		180	56	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-3(0-4)-101314
Date Collected: 10/13/14 14:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-8
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	25	J	36	9.5	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Isophorone	<180		180	41	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Naphthalene	<36		36	5.6	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Nitrobenzene	<36		36	9.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
N-Nitrosodi-n-propylamine	<180	*	180	45	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
N-Nitrosodiphenylamine	<180		180	43	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Pentachlorophenol	<740		740	590	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Phenanthrene	28	J	36	5.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Phenol	<180		180	81	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1
Pyrene	54		36	7.3	ug/Kg	☼	10/15/14 18:12	10/20/14 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*35 - 137*	*10/15/14 18:12*	*10/20/14 17:11*	*1*
2-Fluorobiphenyl	*68*		*25 - 119*	*10/15/14 18:12*	*10/20/14 17:11*	*1*
2-Fluorophenol	*60*		*25 - 110*	*10/15/14 18:12*	*10/20/14 17:11*	*1*
Nitrobenzene-d5	*42*		*25 - 115*	*10/15/14 18:12*	*10/20/14 17:11*	*1*
Phenol-d5	*54*		*31 - 110*	*10/15/14 18:12*	*10/20/14 17:11*	*1*
Terphenyl-d14	*82*		*36 - 134*	*10/15/14 18:12*	*10/20/14 17:11*	*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		10/20/14 11:15	10/20/14 22:42	1
Barium	0.51		0.50	0.050	mg/L		10/20/14 11:15	10/20/14 22:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 22:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 22:42	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:42	1
Cobalt	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:42	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:42	1
Iron	0.58		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 22:42	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 22:42	1
Manganese	0.22		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:42	1
Nickel	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:42	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 18:50	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:42	1
Zinc	0.13	B	0.10	0.020	mg/L		10/20/14 11:15	10/21/14 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.049	J	0.050	0.010	mg/L		10/20/14 11:10	10/26/14 18:19	1
Barium	0.41	J	0.50	0.050	mg/L		10/20/14 11:10	10/26/14 18:19	1
Beryllium	0.0050		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 18:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 18:19	1
Chromium	0.12		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:19	1
Cobalt	0.039		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:19	1
Copper	0.14		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:19	1
Iron	120		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 18:19	1
Lead	0.11		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 18:19	1
Manganese	0.55		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:19	1
Nickel	0.13		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:19	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 18:19	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-3(0-4)-101314
Date Collected: 10/13/14 14:30
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:19	1
Zinc	**0.38**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 18:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.45	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Arsenic	**7.2**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Barium	**75**		0.56	0.060	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Beryllium	**0.63**		0.23	0.045	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Cadmium	**0.24**		0.11	0.014	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Calcium	**26000**		11	3.1	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Chromium	**16**		0.56	0.065	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Cobalt	**9.1**		0.28	0.056	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Copper	**24**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Iron	**17000**		11	4.6	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Lead	**24**	**B**	0.28	0.084	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Magnesium	**17000**		5.6	1.2	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Manganese	**280**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Nickel	**23**		0.56	0.11	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Potassium	**2100**		28	1.7	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Sodium	**840**		56	7.6	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Thallium	**1.1**		0.56	0.24	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Vanadium	**20**		0.28	0.042	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1
Zinc	**60**	**B**	1.1	0.23	mg/Kg	☼	10/24/14 10:00	10/27/14 05:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**56**	**B**	18	7.2	ug/Kg	☼	10/17/14 15:00	10/20/14 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.71**		0.200	0.200	SU			10/22/14 17:14	1

Client Sample ID: RL-3(4-8)-101314
Date Collected: 10/13/14 14:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-9
Matrix: Solid
Percent Solids: 70.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<7.1		7.1	3.1	ug/Kg	☼		10/16/14 17:46	1
Benzene	<7.1		7.1	0.97	ug/Kg	☼		10/16/14 17:46	1
Bromodichloromethane	<7.1		7.1	1.2	ug/Kg	☼		10/16/14 17:46	1
Bromoform	<7.1		7.1	1.6	ug/Kg	☼		10/16/14 17:46	1
Bromomethane	<7.1		7.1	2.1	ug/Kg	☼		10/16/14 17:46	1
Carbon disulfide	<7.1		7.1	1.1	ug/Kg	☼		10/16/14 17:46	1
Carbon tetrachloride	<7.1		7.1	1.3	ug/Kg	☼		10/16/14 17:46	1
Chlorobenzene	<7.1		7.1	0.72	ug/Kg	☼		10/16/14 17:46	1
Chloroethane	<7.1		7.1	1.9	ug/Kg	☼		10/16/14 17:46	1
Chloroform	<7.1		7.1	0.81	ug/Kg	☼		10/16/14 17:46	1
Chloromethane	<7.1		7.1	1.5	ug/Kg	☼		10/16/14 17:46	1
cis-1,2-Dichloroethene	<7.1		7.1	1.0	ug/Kg	☼		10/16/14 17:46	1
cis-1,3-Dichloropropene	<7.1		7.1	0.93	ug/Kg	☼		10/16/14 17:46	1
Dibromochloromethane	<7.1		7.1	1.2	ug/Kg	☼		10/16/14 17:46	1
1,1-Dichloroethane	<7.1		7.1	1.1	ug/Kg	☼		10/16/14 17:46	1
1,2-Dichloroethane	<7.1		7.1	1.0	ug/Kg	☼		10/16/14 17:46	1
1,1-Dichloroethene	<7.1		7.1	1.1	ug/Kg	☼		10/16/14 17:46	1
1,2-Dichloropropane	<7.1		7.1	1.1	ug/Kg	☼		10/16/14 17:46	1
1,3-Dichloropropene, Total	<7.1		7.1	0.93	ug/Kg	☼		10/16/14 17:46	1
Ethylbenzene	<7.1		7.1	1.4	ug/Kg	☼		10/16/14 17:46	1
2-Hexanone	<7.1		7.1	2.0	ug/Kg	☼		10/16/14 17:46	1
Methylene Chloride	<7.1		7.1	1.9	ug/Kg	☼		10/16/14 17:46	1
Methyl Ethyl Ketone	<7.1		7.1	2.6	ug/Kg	☼		10/16/14 17:46	1
methyl isobutyl ketone	<7.1		7.1	1.9	ug/Kg	☼		10/16/14 17:46	1
Methyl tert-butyl ether	<7.1		7.1	1.2	ug/Kg	☼		10/16/14 17:46	1
Styrene	<7.1		7.1	0.93	ug/Kg	☼		10/16/14 17:46	1
1,1,2,2-Tetrachloroethane	<7.1		7.1	1.4	ug/Kg	☼		10/16/14 17:46	1
Tetrachloroethene	<7.1		7.1	1.1	ug/Kg	☼		10/16/14 17:46	1
Toluene	<7.1		7.1	0.99	ug/Kg	☼		10/16/14 17:46	1
trans-1,2-Dichloroethene	<7.1		7.1	0.97	ug/Kg	☼		10/16/14 17:46	1
trans-1,3-Dichloropropene	<7.1		7.1	1.3	ug/Kg	☼		10/16/14 17:46	1
1,1,1-Trichloroethane	<7.1		7.1	1.1	ug/Kg	☼		10/16/14 17:46	1
1,1,2-Trichloroethane	<7.1		7.1	0.97	ug/Kg	☼		10/16/14 17:46	1
Trichloroethene	<7.1		7.1	1.2	ug/Kg	☼		10/16/14 17:46	1
Vinyl chloride	<7.1		7.1	1.5	ug/Kg	☼		10/16/14 17:46	1
Xylenes, Total	<14		14	0.64	ug/Kg	☼		10/16/14 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 122*		*10/16/14 17:46*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*10/16/14 17:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*		*10/16/14 17:46*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*		*10/16/14 17:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<230		230	49	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
1,2-Dichlorobenzene	<230		230	54	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
1,3-Dichlorobenzene	<230		230	51	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
1,4-Dichlorobenzene	<230		230	58	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2,2'-oxybis[1-chloropropane]	<230		230	53	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-3(4-8)-101314
Date Collected: 10/13/14 14:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-9
Matrix: Solid
Percent Solids: 70.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<450		450	100	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2,4,6-Trichlorophenol	<450		450	160	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2,4-Dichlorophenol	<450		450	110	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2,4-Dimethylphenol	<450		450	170	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2,4-Dinitrophenol	<920	*	920	800	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2,4-Dinitrotoluene	<230		230	72	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2,6-Dinitrotoluene	<230		230	90	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2-Chloronaphthalene	<230		230	50	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2-Chlorophenol	<230		230	78	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2-Methylnaphthalene	<45		45	8.4	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2-Methylphenol	<230		230	73	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2-Nitroaniline	<230		230	61	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
2-Nitrophenol	<450		450	110	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
3 & 4 Methylphenol	<230		230	76	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
3,3'-Dichlorobenzidine	<230		230	64	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
3-Nitroaniline	<450		450	140	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
4,6-Dinitro-2-methylphenol	<450	*	450	370	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
4-Bromophenyl phenyl ether	<230		230	60	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
4-Chloro-3-methylphenol	<450		450	160	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
4-Chloroaniline	<920		920	210	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
4-Chlorophenyl phenyl ether	<230		230	53	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
4-Nitroaniline	<450		450	190	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
4-Nitrophenol	<920		920	430	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Acenaphthene	<45		45	8.2	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Acenaphthylene	<45		45	6.0	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Anthracene	<45		45	7.6	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Benzo[a]anthracene	<45		45	6.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Benzo[a]pyrene	<45		45	8.8	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Benzo[b]fluoranthene	<45		45	9.8	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Benzo[g,h,i]perylene	<45		45	15	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Benzo[k]fluoranthene	<45		45	13	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Bis(2-chloroethoxy)methane	<230		230	47	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Bis(2-chloroethyl)ether	<230		230	68	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Bis(2-ethylhexyl) phthalate	<230		230	83	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Butyl benzyl phthalate	<230		230	87	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Carbazole	<230		230	120	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Chrysene	<45		45	12	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Dibenz(a,h)anthracene	<45		45	8.8	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Dibenzofuran	<230		230	53	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Diethyl phthalate	<230		230	77	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Dimethyl phthalate	<230		230	60	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Di-n-butyl phthalate	<230		230	69	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Di-n-octyl phthalate	<230		230	74	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Fluoranthene	<45		45	8.5	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Fluorene	<45		45	6.4	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Hexachlorobenzene	<92		92	11	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Hexachlorobutadiene	<230		230	72	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Hexachlorocyclopentadiene	<920		920	260	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Hexachloroethane	<230		230	69	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

Client Sample ID: RL-3(4-8)-101314
Date Collected: 10/13/14 14:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-9
Matrix: Solid
Percent Solids: 70.6

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	<45		45	12	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Isophorone	<230		230	51	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Naphthalene	<45		45	7.0	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Nitrobenzene	<45		45	11	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
N-Nitrosodi-n-propylamine	<230	*	230	56	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
N-Nitrosodiphenylamine	<230		230	54	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Pentachlorophenol	<920		920	730	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Phenanthrene	<45		45	6.4	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Phenol	<230		230	100	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1
Pyrene	<45		45	9.1	ug/Kg	☼	10/15/14 18:12	10/20/14 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*35 - 137*	*10/15/14 18:12*	*10/20/14 17:35*	*1*
2-Fluorobiphenyl	*67*		*25 - 119*	*10/15/14 18:12*	*10/20/14 17:35*	*1*
2-Fluorophenol	*51*		*25 - 110*	*10/15/14 18:12*	*10/20/14 17:35*	*1*
Nitrobenzene-d5	*35*		*25 - 115*	*10/15/14 18:12*	*10/20/14 17:35*	*1*
Phenol-d5	*51*		*31 - 110*	*10/15/14 18:12*	*10/20/14 17:35*	*1*
Terphenyl-d14	*96*		*36 - 134*	*10/15/14 18:12*	*10/20/14 17:35*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		10/20/14 11:15	10/20/14 22:47	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		10/20/14 11:15	10/20/14 22:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		10/20/14 11:15	10/20/14 22:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:15	10/20/14 22:47	1
Chromium	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:47	1
Cobalt	**0.012**	**J**	0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:47	1
Copper	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:47	1
Iron	**2.6**		0.20	0.20	mg/L		10/20/14 11:15	10/20/14 22:47	1
Lead	<0.0075		0.0075	0.0075	mg/L		10/20/14 11:15	10/20/14 22:47	1
Manganese	**0.26**		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:47	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:47	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:15	10/21/14 18:55	1
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:15	10/20/14 22:47	1
Zinc	**0.021**	**J B ^**	0.10	0.020	mg/L		10/20/14 11:15	10/20/14 22:47	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		10/20/14 11:10	10/26/14 18:25	1
Barium	**0.84**		0.50	0.050	mg/L		10/20/14 11:10	10/26/14 18:25	1
Beryllium	**0.0092**		0.0040	0.0040	mg/L		10/20/14 11:10	10/26/14 18:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		10/20/14 11:10	10/26/14 18:25	1
Chromium	**0.22**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:25	1
Cobalt	**0.15**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:25	1
Copper	**0.28**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:25	1
Iron	**260**		0.20	0.20	mg/L		10/20/14 11:10	10/26/14 18:25	1
Lead	**0.17**		0.0075	0.0075	mg/L		10/20/14 11:10	10/26/14 18:25	1
Manganese	**0.82**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:25	1
Nickel	**0.31**		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		10/20/14 11:10	10/26/14 18:25	1

Client Sample ID: RL-3(4-8)-101314
Date Collected: 10/13/14 14:45
Date Received: 10/14/14 07:10

Lab Sample ID: 500-85947-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		10/20/14 11:10	10/26/14 18:25	1
Zinc	**0.51**	**B**	0.10	0.020	mg/L		10/20/14 11:10	10/26/14 18:25	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.4		1.4	0.55	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Arsenic	**11**		0.69	0.14	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Barium	**72**		0.69	0.074	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Beryllium	**0.74**		0.28	0.055	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Cadmium	<0.14	L	0.14	0.017	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Calcium	**3600**		14	3.7	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Chromium	**20**		0.69	0.080	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Cobalt	**16**		0.34	0.069	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Copper	**31**		0.69	0.14	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Iron	**28000**		14	5.7	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Lead	**15**	**B**	0.34	0.10	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Magnesium	**4500**		6.9	1.4	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Manganese	**140**		0.69	0.14	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Nickel	**37**		0.69	0.14	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Potassium	**1700**		34	2.1	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Selenium	<0.69		0.69	0.24	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Silver	<0.34		0.34	0.025	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Sodium	**1600**		69	9.2	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Thallium	**1.5**		0.69	0.29	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Vanadium	**20**		0.34	0.051	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1
Zinc	**61**	**B**	1.4	0.28	mg/Kg	☼	10/24/14 10:00	10/27/14 05:52	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.20	0.20	ug/L		10/20/14 12:30	10/21/14 11:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**64**	**B ^**	23	9.1	ug/Kg	☼	10/17/14 15:00	10/20/14 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.74**		0.200	0.200	SU			10/22/14 17:14	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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
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.
L	A negative instrument reading had an absolute value greater than the reporting limit
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control 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.
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 exceeds the control 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 - Willowbrook - WO 089

TestAmerica Job ID: 500-85947-1

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	04-30-15

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.5

500-85947 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston Solutions
Address: 300 Pingree Circle, Ste 202
Address: Hinsdale, IL 60060
Phone: 224-864-7250
Fax: 224-864-7236
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-85947

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 2.1/2.3

Client	Client Project #
Weston	
Project Name: IDOT-069	
Project Location/State: Willowbrook/IL	Lab Project #
Sampler: T. Walls	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	Parameter: VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	HA					Comments
								7	7	7	7	7					
1		CBW-1 (0-4)-101314	10-13-14	1230	2	S		X	X	X	X	X					
2		CBW-1 (4-8)-101314	↓	1235	↓	↓		↓	↓	↓	↓	↓					
3		CBW-1 (4-8)-101314MD		1235													
4		RL-1 (0-4)-101314		1335													
5		RL-1 (4-8)-101314		1340													
6		RL-2 (0-4)-101314		1355													
7		RL-2 (4-8)-101314		1400													
8		RL-3 (0-4)-101314		1430													
9		RL-3 (4-8)-101314	10-13-14	1445	2	S		X	X	X	X	X					
							T. Walls 10-13-14										

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

Sample Disposal
[ ] Return to Client [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
T. Walls A. Walls	Weston	10-13-14	1530	R Neal	TA	10/13/14	1535
R Neal	TA	10/13/14	1627	Sherri Scott	TA-CHI	10/14/14	0710
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: