



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 362: Barrington Rd. at Bode Rd. Office Phone Number, if available: \_\_\_\_\_

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

800 block of Barrington Road

City: Hoffman Estates State: IL Zip Code: \_\_\_\_\_

County: Cook Township: \_\_\_\_\_

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

Latitude: 42.040164737 Longitude: -88.144743013

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

GPS  Map Interpolation  Photo Interpolation  Survey  Other

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

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

Site Owner

Site Operator

Name: Illinois Department of Transportation

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

Street Address: 201 West Center Court

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

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

City: Schaumburg State: IL

City: Schaumburg State: IL

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

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

Contact: Sam Mead

Contact: Sam Mead

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

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

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

Project Name: FAP 362: Barrington Rd. at Bode Rd.

Latitude: 42.040164737 Longitude: -88.144743013

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 B-1, B-2, AND B-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2217-1. 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: 500-62029-1.

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

I, Steven Gobelman, P.E., L.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

Steven Gobelman, P.E., L.P.G  
Printed Name:



Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

7/3/14  
Date:



**Summary Table of ISGS Site No. 2217-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 362 (Barrington Road) at Bode Road**  
**Hoffman Estates and Streamwood, Cook County, Illinois**

Field Sample ID	B-1(0-2)-082813	B-1(0-2)-082813D	B-2(0-2)-082813	B-3(0-2)-082813	Soil Reference Concentrations <sup>A</sup>
Sample Date	8/28/2013	8/28/2013	8/28/2013	8/28/2013	
Location ID	B-1	B-1	B-2	B-3	
Depth	0 - 2	0 - 2	0 - 2	0 - 2	
Parameter					
Laboratory, pH (s.u.)	8.8	8.8	8.89	8.85	<6.25, >9.0
<b>VOCs (ug/kg)</b>	None Detected				
<b>SVOCs (ug/kg)</b>					
Anthracene	ND	ND	ND	34 J	1.20E+07
Benzo(a)anthracene	14 J	8.1 J	31 J	120	900 / 1100 / 1800
Benzo(a)pyrene	15 J	9.8 J	34 J	96	90 / 1300 / 2100
Benzo(b)fluoranthene	23 J	12 J	46	140	900 / 1500 / 2100
Benzo(g,h,i)perylene	19 J	12 J	40	89	2300000
Benzo(k)fluoranthene	14 J	9.2 J	20 J	67	9000
Chrysene	19 J	11 J	44	130	88000
Dibenzo(a,h)anthracene	ND	ND	14 J	36	90 / 200 / 420
Fluoranthene	22 J	ND	52	200	3100000
Indeno(1,2,3-cd)pyrene	15 J	ND	32 J	73	900 / 900 / 1600
Phenanthrene	ND	ND	22 J	120	210000
Pyrene	20 J	ND	45	210 J-	2300000
<b>TCL Metals (mg/kg)</b>					
Arsenic, Total	8.5	10	8.9	7.4	11.3 / 13
Barium, Total	40 B	49 B	44 B	43 J	1500
Beryllium, Total	0.85	0.77	0.57	0.53	22
Cadmium, Total	0.32	0.42	0.44	0.45	5.2
Calcium, Total	33000 B	45000 B	89000 B	95000 J	---
Chromium, Total	28	19	14	12 J	21
Cobalt, Total	9.6	10	11	6.9	20
Copper, Total	26 B	28 B	24 B	21 B	2900
Iron, Total	21000	23000	18000	15000 J	15000 / 15900
Lead, Total	14	14	14	29 J	107
Magnesium, Total	22000 B	29000 B	41000 B	53000 J	325000
Manganese, Total	370 B	430 B	490 B	410 B	630 / 636
Mercury, Total	0.028	0.026	0.015 J	0.025	0.89
Nickel, Total	25 B	26 B	24 B	17 J	100
Potassium, Total	1800	2200	2300	1900 J+	---
Sodium, Total	520 B	630 B	470 B	650 B	---
Strontium, Total	18 J	22 J	36 J	36 J	84
Thallium, Total	0.55	0.42 J	0.77	ND	2.6
Vanadium, Total	24 B	25 B	17 B	18 J	550
Zinc, Total	52	62	46 B	42 B	5100
<b>TCLP Metals (mg/l)</b>					
Barium, TCLP	0.85	0.77	0.8	0.9	2
Cadmium, TCLP	ND	0.0021 J	ND	ND	0.005
Copper, TCLP	0.032	0.022 J	0.016 J	0.022 J	0.65
Manganese, TCLP	0.32	0.34	0.39	0.03	0.15
Nickel, TCLP	ND	ND	0.01 J	ND	0.1
Zinc, TCLP	0.58	0.45	0.42	0.52	5
<b>SPLP Metals (mg/l)</b>					
Arsenic, SPLP	0.027 J	0.018 J	0.017 J	0.022 J	0.05
Barium, SPLP	0.91	0.81	0.79	0.9	2
Chromium, SPLP	0.076	0.045	0.034	0.06 J	0.1
Cobalt, SPLP	0.021 J	0.014 J	0.0099 J	0.015 J	1
Copper, SPLP	0.098	0.073	0.063	0.086	0.65
Iron, SPLP	71	43	33	57 J	5
Lead, SPLP	0.034	0.022	0.04	0.14	0.0075
Manganese, SPLP	0.38	0.23	0.2	0.34	0.15
Nickel, SPLP	0.083	0.049	0.034	0.054 J	0.1
Zinc, SPLP	0.67 B	0.63 B	0.6 B	0.75 B	5

**Summary Table of ISGS Site No. 2217-1**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**FAP 362 (Barrington Road) at Bode Road**  
**Hoffman Estates and Streamwood, Cook County, Illinois**

**Notes:**

--- - not applicable or value not available.


<sup>A</sup> - Soil reference concentrations from MAC Table and from TACO for leachable metals. Background values for Chicago corporate limits and MSA counties for VOCs and SVOCs are included, as applicable. Background values included for total inorganics, as applicable.

B - Constituent detected in the blank and investigative sample.

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: 500-62029-1  
Client Project/Site: IDOT - Hoffman Estates - 012

For:  
Weston Solutions, Inc.  
750 E. Bunker Court  
Suite 500  
Vernon Hills, Illinois 60061-1450

Attn: Mr. S. Babusukumar



Authorized for release by:  
9/11/2013 4:25:48 PM

Richard Wright, Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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

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

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-3(0-2)-082813**

**Lab Sample ID: 500-62029-1**

**Date Collected: 08/28/13 09:35**

**Matrix: Solid**

**Date Received: 08/28/13 14:40**

**Percent Solids: 90.9**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	*		08/30/13 15:56	1
Benzene	<5.5		5.5	0.75	ug/Kg	*		08/30/13 15:56	1
Bromodichloromethane	<5.5		5.5	0.95	ug/Kg	*		08/30/13 15:56	1
Bromoform	<5.5		5.5	1.3	ug/Kg	*		08/30/13 15:56	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	*		08/30/13 15:56	1
Carbon disulfide	<5.5		5.5	0.82	ug/Kg	*		08/30/13 15:56	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	*		08/30/13 15:56	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	*		08/30/13 15:56	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	*		08/30/13 15:56	1
Chloroform	<5.5		5.5	0.63	ug/Kg	*		08/30/13 15:56	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	*		08/30/13 15:56	1
cis-1,2-Dichloroethene	<5.5		5.5	0.78	ug/Kg	*		08/30/13 15:56	1
cis-1,3-Dichloropropene	<5.5		5.5	0.72	ug/Kg	*		08/30/13 15:56	1
Dibromochloromethane	<5.5		5.5	0.96	ug/Kg	*		08/30/13 15:56	1
1,1-Dichloroethane	<5.5		5.5	0.87	ug/Kg	*		08/30/13 15:56	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	*		08/30/13 15:56	1
1,1-Dichloroethene	<5.5		5.5	0.89	ug/Kg	*		08/30/13 15:56	1
1,2-Dichloropropane	<5.5		5.5	0.83	ug/Kg	*		08/30/13 15:56	1
1,3-Dichloropropene, Total	<5.5		5.5	0.72	ug/Kg	*		08/30/13 15:56	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	*		08/30/13 15:56	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	*		08/30/13 15:56	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	*		08/30/13 15:56	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	*		08/30/13 15:56	1
methyl isobutyl ketone	<5.5		5.5	1.4	ug/Kg	*		08/30/13 15:56	1
Methyl tert-butyl ether	<5.5		5.5	0.91	ug/Kg	*		08/30/13 15:56	1
Styrene	<5.5		5.5	0.72	ug/Kg	*		08/30/13 15:56	1
1,1,1,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	*		08/30/13 15:56	1
Tetrachloroethene	<5.5		5.5	0.84	ug/Kg	*		08/30/13 15:56	1
Toluene	<5.5		5.5	0.77	ug/Kg	*		08/30/13 15:56	1
trans-1,2-Dichloroethene	<5.5		5.5	0.76	ug/Kg	*		08/30/13 15:56	1
trans-1,3-Dichloropropene	<5.5		5.5	0.99	ug/Kg	*		08/30/13 15:56	1
1,1,1-Trichloroethane	<5.5		5.5	0.82	ug/Kg	*		08/30/13 15:56	1
1,1,2-Trichloroethane	<5.5		5.5	0.75	ug/Kg	*		08/30/13 15:56	1
Trichloroethene	<5.5		5.5	0.91	ug/Kg	*		08/30/13 15:56	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	*		08/30/13 15:56	1
Xylenes, Total	<11		11	0.50	ug/Kg	*		08/30/13 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 122		08/30/13 15:56	1
Dibromofluoromethane	98		75 - 120		08/30/13 15:56	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		08/30/13 15:56	1
Toluene-d8 (Surr)	95		75 - 122		08/30/13 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	*	09/06/13 17:50	09/10/13 13:30	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	*	09/06/13 17:50	09/10/13 13:30	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	*	09/06/13 17:50	09/10/13 13:30	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	*	09/06/13 17:50	09/10/13 13:30	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	*	09/06/13 17:50	09/10/13 13:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-3(0-2)-082813**

**Lab Sample ID: 500-62029-1**

**Date Collected: 08/28/13 09:35**

**Matrix: Solid**

**Date Received: 08/28/13 14:40**

**Percent Solids: 90.9**

**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	100	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2,6-Dinitrotoluene	<180		180	43	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2-Methylnaphthalene	<180		180	47	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2-Methylphenol	<180		180	48	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2-Nitroaniline	<180		180	66	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
3-Nitroaniline	<360		360	70	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
4,6-Dinitro-2-methylphenol	<360 *		360	88	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
4-Chloro-3-methylphenol	<360		360	170	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
4-Chlorophenyl phenyl ether	<180		180	57	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
4-Nitroaniline	<360		360	75	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Acenaphthene	<36		36	11	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Acenaphthylene	<36		36	8.4	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Anthracene</b>	<b>34</b> J		36	8.6	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Benzo[a]anthracene</b>	<b>120</b>		36	7.6	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Benzo[a]pyrene</b>	<b>96</b>		36	6.6	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Benzo[b]fluoranthene</b>	<b>140</b>		36	7.1	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Benzo[g,h,i]perylene</b>	<b>89</b>		36	12	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Benzo[k]fluoranthene</b>	<b>67</b>		36	8.7	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Bis(2-ethylhexyl) phthalate	<180		180	48	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Butyl benzyl phthalate	<180		180	46	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Carbazole	<180		180	51	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Chrysene</b>	<b>130</b>		36	8.2	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Dibenz(a,h)anthracene</b>	<b>36</b>		36	10	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Dibenzofuran	<180		180	44	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Fluoranthene</b>	<b>200</b>		36	15	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Fluorene	<36		36	8.3	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Hexachlorobenzene	<74		74	7.2	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Hexachloroethane	<180		180	39	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-3(0-2)-082813**

**Lab Sample ID: 500-62029-1**

Date Collected: 08/28/13 09:35

Matrix: Solid

Date Received: 08/28/13 14:40

Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>73</b>		36	12	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Isophorone	<180		180	41	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Naphthalene	<36		36	7.0	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Nitrobenzene	<36		36	11	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
N-Nitrosodi-n-propylamine	<180		180	46	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
N-Nitrosodiphenylamine	<180		180	49	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Phenanthrene</b>	<b>120</b>		36	15	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Phenol	<180		180	58	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
<b>Pyrene</b>	<b>210</b>		36	13	ug/Kg	☼	09/06/13 17:50	09/10/13 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		35 - 137				09/06/13 17:50	09/10/13 13:30	1
2-Fluorobiphenyl	69		25 - 119				09/06/13 17:50	09/10/13 13:30	1
2-Fluorophenol	58		25 - 110				09/06/13 17:50	09/10/13 13:30	1
Nitrobenzene-d5	53		25 - 115				09/06/13 17:50	09/10/13 13:30	1
Phenol-d5	61		31 - 110				09/06/13 17:50	09/10/13 13:30	1
Terphenyl-d14	76		36 - 134				09/06/13 17:50	09/10/13 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/05/13 12:55	1
<b>Barium</b>	<b>0.90</b>		0.50	0.010	mg/L		09/04/13 09:50	09/05/13 12:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/05/13 12:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/13 09:50	09/05/13 12:55	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 12:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 12:55	1
<b>Copper</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		09/04/13 09:50	09/05/13 12:55	1
Iron	<0.20		0.20	0.20	mg/L		09/04/13 09:50	09/05/13 12:55	1
<b>Lead</b>	<b>0.0053</b>	<b>J</b>	0.0075	0.0050	mg/L		09/04/13 09:50	09/05/13 12:55	1
<b>Manganese</b>	<b>0.030</b>		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 12:55	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 12:55	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/05/13 12:55	1
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 12:55	1
<b>Zinc</b>	<b>0.52</b>		0.10	0.020	mg/L		09/04/13 09:50	09/05/13 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.022</b>	<b>J</b>	0.050	0.010	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Barium</b>	<b>0.90</b>		0.50	0.010	mg/L		09/04/13 09:50	09/10/13 01:48	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/10/13 01:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Chromium</b>	<b>0.060</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Cobalt</b>	<b>0.015</b>	<b>J</b>	0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Copper</b>	<b>0.086</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Iron</b>	<b>57</b>		0.20	0.20	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Lead</b>	<b>0.14</b>		0.0075	0.0050	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Nickel</b>	<b>0.054</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 01:48	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/10/13 01:48	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-3(0-2)-082813**

**Lab Sample ID: 500-62029-1**

Date Collected: 08/28/13 09:35

Matrix: Solid

Date Received: 08/28/13 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 01:48	1
<b>Zinc</b>	<b>0.75</b>	<b>B</b>	0.10	0.020	mg/L		09/04/13 09:50	09/10/13 01:48	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>7900</b>	<b>B</b>	10	0.92	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
Antimony	<1.0		1.0	0.40	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Arsenic</b>	<b>7.4</b>		0.50	0.10	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Barium</b>	<b>43</b>	<b>B</b>	0.50	0.054	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Beryllium</b>	<b>0.53</b>		0.20	0.018	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Cadmium</b>	<b>0.45</b>		0.10	0.013	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Calcium</b>	<b>95000</b>	<b>B</b>	100	27	mg/Kg	☼	08/30/13 11:30	09/10/13 12:12	10
<b>Chromium</b>	<b>12</b>		0.50	0.058	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Cobalt</b>	<b>6.9</b>		0.25	0.018	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Copper</b>	<b>21</b>	<b>B</b>	0.50	0.044	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Iron</b>	<b>15000</b>		10	4.1	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Lead</b>	<b>29</b>		0.25	0.075	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Magnesium</b>	<b>53000</b>	<b>B</b>	50	10	mg/Kg	☼	08/30/13 11:30	09/10/13 12:12	10
<b>Manganese</b>	<b>410</b>	<b>B</b>	0.50	0.027	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Nickel</b>	<b>17</b>	<b>B</b>	0.50	0.049	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Potassium</b>	<b>1900</b>		25	1.5	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
Selenium	<0.50		0.50	0.18	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Sodium</b>	<b>650</b>	<b>B</b>	50	6.7	mg/Kg	☼	08/30/13 11:30	09/09/13 16:27	1
Thallium	<0.50		0.50	0.21	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Vanadium</b>	<b>18</b>	<b>B</b>	0.25	0.037	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Zinc</b>	<b>42</b>	<b>B</b>	1.0	0.20	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1
<b>Strontium</b>	<b>36</b>	<b>^ B</b>	0.25	0.010	mg/Kg	☼	08/30/13 11:30	09/03/13 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.073</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.14</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 11:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>25</b>		17	8.1	ug/Kg	☼	08/29/13 14:45	08/30/13 10:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.85</b>		0.200	0.200	SU			09/10/13 15:29	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-2(0-2)-082813**

**Lab Sample ID: 500-62029-2**

**Date Collected: 08/28/13 09:45**

**Matrix: Solid**

**Date Received: 08/28/13 14:40**

**Percent Solids: 90.1**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.6		5.6	2.4	ug/Kg	☼		08/30/13 16:19	1
Benzene	<5.6		5.6	0.76	ug/Kg	☼		08/30/13 16:19	1
Bromodichloromethane	<5.6		5.6	0.96	ug/Kg	☼		08/30/13 16:19	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/30/13 16:19	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/30/13 16:19	1
Carbon disulfide	<5.6		5.6	0.83	ug/Kg	☼		08/30/13 16:19	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/30/13 16:19	1
Chlorobenzene	<5.6		5.6	0.56	ug/Kg	☼		08/30/13 16:19	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/30/13 16:19	1
Chloroform	<5.6		5.6	0.64	ug/Kg	☼		08/30/13 16:19	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/30/13 16:19	1
cis-1,2-Dichloroethene	<5.6		5.6	0.78	ug/Kg	☼		08/30/13 16:19	1
cis-1,3-Dichloropropene	<5.6		5.6	0.73	ug/Kg	☼		08/30/13 16:19	1
Dibromochloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/30/13 16:19	1
1,1-Dichloroethane	<5.6		5.6	0.88	ug/Kg	☼		08/30/13 16:19	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		08/30/13 16:19	1
1,1-Dichloroethene	<5.6		5.6	0.90	ug/Kg	☼		08/30/13 16:19	1
1,2-Dichloropropane	<5.6		5.6	0.84	ug/Kg	☼		08/30/13 16:19	1
1,3-Dichloropropene, Total	<5.6		5.6	0.73	ug/Kg	☼		08/30/13 16:19	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/30/13 16:19	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/30/13 16:19	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/30/13 16:19	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/30/13 16:19	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/30/13 16:19	1
Methyl tert-butyl ether	<5.6		5.6	0.92	ug/Kg	☼		08/30/13 16:19	1
Styrene	<5.6		5.6	0.73	ug/Kg	☼		08/30/13 16:19	1
1,1,1,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/30/13 16:19	1
Tetrachloroethene	<5.6		5.6	0.85	ug/Kg	☼		08/30/13 16:19	1
Toluene	<5.6		5.6	0.78	ug/Kg	☼		08/30/13 16:19	1
trans-1,2-Dichloroethene	<5.6		5.6	0.76	ug/Kg	☼		08/30/13 16:19	1
trans-1,3-Dichloropropene	<5.6		5.6	0.99	ug/Kg	☼		08/30/13 16:19	1
1,1,1-Trichloroethane	<5.6		5.6	0.83	ug/Kg	☼		08/30/13 16:19	1
1,1,2-Trichloroethane	<5.6		5.6	0.76	ug/Kg	☼		08/30/13 16:19	1
Trichloroethene	<5.6		5.6	0.92	ug/Kg	☼		08/30/13 16:19	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/30/13 16:19	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		08/30/13 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 122		08/30/13 16:19	1
Dibromofluoromethane	103		75 - 120		08/30/13 16:19	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		08/30/13 16:19	1
Toluene-d8 (Surr)	96		75 - 122		08/30/13 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
1,2-Dichlorobenzene	<180		180	39	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-2(0-2)-082813**

**Lab Sample ID: 500-62029-2**

Date Collected: 08/28/13 09:45

Matrix: Solid

Date Received: 08/28/13 14:40

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	100	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2,4,6-Trichlorophenol	<350		350	45	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2,4-Dichlorophenol	<350		350	110	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2,4-Dimethylphenol	<350		350	110	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2,4-Dinitrophenol	<720		720	180	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2,6-Dinitrotoluene	<180		180	42	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2-Chlorophenol	<180		180	51	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2-Methylnaphthalene	<180		180	46	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2-Methylphenol	<180		180	47	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2-Nitroaniline	<180		180	64	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
2-Nitrophenol	<350		350	56	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
3 & 4 Methylphenol	<180		180	68	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
3-Nitroaniline	<350		350	69	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
4,6-Dinitro-2-methylphenol	<350 *		350	87	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
4-Bromophenyl phenyl ether	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
4-Chloro-3-methylphenol	<350		350	170	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
4-Chloroaniline	<720		720	110	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
4-Chlorophenyl phenyl ether	<180		180	56	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
4-Nitroaniline	<350		350	73	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
4-Nitrophenol	<720		720	190	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Acenaphthene	<35		35	11	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Acenaphthylene	<35		35	8.2	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Anthracene	<35		35	8.4	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Benzo[a]anthracene</b>	<b>31</b>	<b>J</b>	35	7.5	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Benzo[a]pyrene</b>	<b>34</b>	<b>J</b>	35	6.5	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Benzo[b]fluoranthene</b>	<b>46</b>		35	6.9	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Benzo[g,h,i]perylene</b>	<b>40</b>		35	12	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Benzo[k]fluoranthene</b>	<b>20</b>	<b>J</b>	35	8.5	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Bis(2-chloroethoxy)methane	<180		180	39	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Bis(2-ethylhexyl) phthalate	<180		180	47	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Butyl benzyl phthalate	<180		180	45	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Carbazole	<180		180	50	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Chrysene</b>	<b>44</b>		35	8.1	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Dibenz(a,h)anthracene</b>	<b>14</b>	<b>J</b>	35	10	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Dibenzofuran	<180		180	43	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Di-n-butyl phthalate	<180		180	45	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Di-n-octyl phthalate	<180		180	72	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Fluoranthene</b>	<b>52</b>		35	15	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Fluorene	<35		35	8.1	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Hexachlorobenzene	<72		72	7.0	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Hexachlorobutadiene	<180		180	47	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Hexachlorocyclopentadiene	<720		720	170	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Hexachloroethane	<180		180	38	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-2(0-2)-082813**

**Lab Sample ID: 500-62029-2**

Date Collected: 08/28/13 09:45

Matrix: Solid

Date Received: 08/28/13 14:40

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>32</b>	<b>J</b>	35	12	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Isophorone	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Naphthalene	<35		35	6.9	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Nitrobenzene	<35		35	11	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
N-Nitrosodiphenylamine	<180		180	48	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Pentachlorophenol	<720		720	180	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Phenanthrene</b>	<b>22</b>	<b>J</b>	35	15	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
Phenol	<180		180	57	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Pyrene</b>	<b>45</b>		35	13	ug/Kg	☼	09/06/13 17:50	09/10/13 13:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	62		35 - 137				09/06/13 17:50	09/10/13 13:48	1
2-Fluorobiphenyl	58		25 - 119				09/06/13 17:50	09/10/13 13:48	1
2-Fluorophenol	52		25 - 110				09/06/13 17:50	09/10/13 13:48	1
Nitrobenzene-d5	45		25 - 115				09/06/13 17:50	09/10/13 13:48	1
Phenol-d5	55		31 - 110				09/06/13 17:50	09/10/13 13:48	1
Terphenyl-d14	62		36 - 134				09/06/13 17:50	09/10/13 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/05/13 13:08	1
<b>Barium</b>	<b>0.80</b>		0.50	0.010	mg/L		09/04/13 09:50	09/05/13 13:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/05/13 13:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/13 09:50	09/05/13 13:08	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:08	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 13:08	1
<b>Copper</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:08	1
Iron	<0.20		0.20	0.20	mg/L		09/04/13 09:50	09/05/13 13:08	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/04/13 09:50	09/05/13 13:08	1
<b>Manganese</b>	<b>0.39</b>		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:08	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:08	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/05/13 13:08	1
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 13:08	1
<b>Zinc</b>	<b>0.42</b>		0.10	0.020	mg/L		09/04/13 09:50	09/05/13 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.017</b>	<b>J</b>	0.050	0.010	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Barium</b>	<b>0.79</b>		0.50	0.010	mg/L		09/04/13 09:50	09/10/13 02:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/10/13 02:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Chromium</b>	<b>0.034</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Cobalt</b>	<b>0.0099</b>	<b>J</b>	0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Copper</b>	<b>0.063</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Iron</b>	<b>33</b>		0.20	0.20	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Lead</b>	<b>0.040</b>		0.0075	0.0050	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Manganese</b>	<b>0.20</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Nickel</b>	<b>0.034</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:13	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/10/13 02:13	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-2(0-2)-082813**

**Lab Sample ID: 500-62029-2**

Date Collected: 08/28/13 09:45

Matrix: Solid

Date Received: 08/28/13 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 02:13	1
<b>Zinc</b>	<b>0.60</b>	<b>B</b>	0.10	0.020	mg/L		09/04/13 09:50	09/10/13 02:13	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>8200</b>	<b>B</b>	10	0.94	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
Antimony	<1.0		1.0	0.41	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Arsenic</b>	<b>8.9</b>		0.51	0.10	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Barium</b>	<b>44</b>	<b>B</b>	0.51	0.055	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Beryllium</b>	<b>0.57</b>		0.20	0.018	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Cadmium</b>	<b>0.44</b>		0.10	0.013	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Calcium</b>	<b>89000</b>	<b>B</b>	100	28	mg/Kg	☼	08/30/13 11:30	09/10/13 12:32	10
<b>Chromium</b>	<b>14</b>		0.51	0.059	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Cobalt</b>	<b>11</b>		0.26	0.018	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Copper</b>	<b>24</b>	<b>B</b>	0.51	0.045	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Iron</b>	<b>18000</b>		10	4.2	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Lead</b>	<b>14</b>		0.26	0.076	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Magnesium</b>	<b>41000</b>	<b>B</b>	5.1	1.1	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Manganese</b>	<b>490</b>	<b>B</b>	0.51	0.028	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Nickel</b>	<b>24</b>	<b>B</b>	0.51	0.050	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Potassium</b>	<b>2300</b>		26	1.5	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
Selenium	<0.51		0.51	0.18	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Sodium</b>	<b>470</b>	<b>B</b>	51	6.9	mg/Kg	☼	08/30/13 11:30	09/09/13 16:52	1
<b>Thallium</b>	<b>0.77</b>		0.51	0.22	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Vanadium</b>	<b>17</b>	<b>B</b>	0.26	0.038	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Zinc</b>	<b>46</b>	<b>B</b>	1.0	0.21	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1
<b>Strontium</b>	<b>36</b>	<b>^ B</b>	0.26	0.010	mg/Kg	☼	08/30/13 11:30	09/03/13 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.10</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.11</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>15</b>	<b>J</b>	17	8.0	ug/Kg	☼	08/29/13 14:45	08/30/13 10:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.89</b>		0.200	0.200	SU			09/10/13 15:32	1



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813**

**Lab Sample ID: 500-62029-3**

**Date Collected: 08/28/13 09:55**

**Matrix: Solid**

**Date Received: 08/28/13 14:40**

**Percent Solids: 88.6**

**Method: 8260B - VOC**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.6		5.6	2.4	ug/Kg	*		08/30/13 16:42	1
Benzene	<5.6		5.6	0.77	ug/Kg	*		08/30/13 16:42	1
Bromodichloromethane	<5.6		5.6	0.97	ug/Kg	*		08/30/13 16:42	1
Bromoform	<5.6		5.6	1.3	ug/Kg	*		08/30/13 16:42	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	*		08/30/13 16:42	1
Carbon disulfide	<5.6		5.6	0.84	ug/Kg	*		08/30/13 16:42	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	*		08/30/13 16:42	1
Chlorobenzene	<5.6		5.6	0.57	ug/Kg	*		08/30/13 16:42	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	*		08/30/13 16:42	1
Chloroform	<5.6		5.6	0.65	ug/Kg	*		08/30/13 16:42	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	*		08/30/13 16:42	1
cis-1,2-Dichloroethene	<5.6		5.6	0.80	ug/Kg	*		08/30/13 16:42	1
cis-1,3-Dichloropropene	<5.6		5.6	0.74	ug/Kg	*		08/30/13 16:42	1
Dibromochloromethane	<5.6		5.6	0.98	ug/Kg	*		08/30/13 16:42	1
1,1-Dichloroethane	<5.6		5.6	0.89	ug/Kg	*		08/30/13 16:42	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	*		08/30/13 16:42	1
1,1-Dichloroethene	<5.6		5.6	0.91	ug/Kg	*		08/30/13 16:42	1
1,2-Dichloropropane	<5.6		5.6	0.86	ug/Kg	*		08/30/13 16:42	1
1,3-Dichloropropene, Total	<5.6		5.6	0.74	ug/Kg	*		08/30/13 16:42	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	*		08/30/13 16:42	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	*		08/30/13 16:42	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	*		08/30/13 16:42	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	*		08/30/13 16:42	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	*		08/30/13 16:42	1
Methyl tert-butyl ether	<5.6		5.6	0.93	ug/Kg	*		08/30/13 16:42	1
Styrene	<5.6		5.6	0.74	ug/Kg	*		08/30/13 16:42	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	*		08/30/13 16:42	1
Tetrachloroethene	<5.6		5.6	0.86	ug/Kg	*		08/30/13 16:42	1
Toluene	<5.6		5.6	0.79	ug/Kg	*		08/30/13 16:42	1
trans-1,2-Dichloroethene	<5.6		5.6	0.78	ug/Kg	*		08/30/13 16:42	1
trans-1,3-Dichloropropene	<5.6		5.6	1.0	ug/Kg	*		08/30/13 16:42	1
1,1,1-Trichloroethane	<5.6		5.6	0.84	ug/Kg	*		08/30/13 16:42	1
1,1,2-Trichloroethane	<5.6		5.6	0.77	ug/Kg	*		08/30/13 16:42	1
Trichloroethene	<5.6		5.6	0.93	ug/Kg	*		08/30/13 16:42	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	*		08/30/13 16:42	1
Xylenes, Total	<11		11	0.51	ug/Kg	*		08/30/13 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 122		08/30/13 16:42	1
Dibromofluoromethane	99		75 - 120		08/30/13 16:42	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134		08/30/13 16:42	1
Toluene-d8 (Surr)	95		75 - 122		08/30/13 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	*	09/06/13 17:50	09/10/13 14:06	1
1,2-Dichlorobenzene	<180		180	39	ug/Kg	*	09/06/13 17:50	09/10/13 14:06	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	*	09/06/13 17:50	09/10/13 14:06	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	*	09/06/13 17:50	09/10/13 14:06	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	*	09/06/13 17:50	09/10/13 14:06	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813**

**Lab Sample ID: 500-62029-3**

Date Collected: 08/28/13 09:55

Matrix: Solid

Date Received: 08/28/13 14:40

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2,4,6-Trichlorophenol	<360		360	45	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2,4-Dinitrophenol	<730		730	180	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2,6-Dinitrotoluene	<180		180	43	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2-Chlorophenol	<180		180	51	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2-Methylnaphthalene	<180		180	47	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2-Methylphenol	<180		180	48	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2-Nitroaniline	<180		180	65	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
2-Nitrophenol	<360		360	56	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
3 & 4 Methylphenol	<180		180	68	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
3-Nitroaniline	<360		360	69	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
4,6-Dinitro-2-methylphenol	<360 *		360	87	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
4-Bromophenyl phenyl ether	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
4-Chloro-3-methylphenol	<360		360	170	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
4-Chloroaniline	<730		730	110	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
4-Chlorophenyl phenyl ether	<180		180	57	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
4-Nitroaniline	<360		360	74	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
4-Nitrophenol	<730		730	190	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Acenaphthene	<36		36	11	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Acenaphthylene	<36		36	8.3	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Anthracene	<36		36	8.5	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Benzo[a]anthracene</b>	<b>14 J</b>		36	7.5	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Benzo[a]pyrene</b>	<b>15 J</b>		36	6.6	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Benzo[b]fluoranthene</b>	<b>23 J</b>		36	7.0	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Benzo[g,h,i]perylene</b>	<b>19 J</b>		36	12	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Benzo[k]fluoranthene</b>	<b>14 J</b>		36	8.6	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Bis(2-ethylhexyl) phthalate	<180		180	48	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Butyl benzyl phthalate	<180		180	45	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Carbazole	<180		180	51	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Chrysene</b>	<b>19 J</b>		36	8.1	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Dibenz(a,h)anthracene	<36		36	10	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Dibenzofuran	<180		180	43	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Diethyl phthalate	<180		180	60	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Di-n-butyl phthalate	<180		180	45	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Di-n-octyl phthalate	<180		180	73	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Fluoranthene</b>	<b>22 J</b>		36	15	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Fluorene	<36		36	8.2	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Hexachlorobenzene	<73		73	7.1	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Hexachlorobutadiene	<180		180	47	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Hexachlorocyclopentadiene	<730		730	170	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Hexachloroethane	<180		180	38	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813**

**Lab Sample ID: 500-62029-3**

Date Collected: 08/28/13 09:55

Matrix: Solid

Date Received: 08/28/13 14:40

Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>15</b>	<b>J</b>	36	12	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Isophorone	<180		180	40	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Naphthalene	<36		36	6.9	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Nitrobenzene	<36		36	11	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
N-Nitrosodi-n-propylamine	<180		180	46	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
N-Nitrosodiphenylamine	<180		180	49	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Pentachlorophenol	<730		730	180	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Phenanthrene	<36		36	15	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
Phenol	<180		180	57	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Pyrene</b>	<b>20</b>	<b>J</b>	36	13	ug/Kg	☼	09/06/13 17:50	09/10/13 14:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol</i>	71		35 - 137				09/06/13 17:50	09/10/13 14:06	1
<i>2-Fluorobiphenyl</i>	63		25 - 119				09/06/13 17:50	09/10/13 14:06	1
<i>2-Fluorophenol</i>	59		25 - 110				09/06/13 17:50	09/10/13 14:06	1
<i>Nitrobenzene-d5</i>	52		25 - 115				09/06/13 17:50	09/10/13 14:06	1
<i>Phenol-d5</i>	61		31 - 110				09/06/13 17:50	09/10/13 14:06	1
<i>Terphenyl-d14</i>	74		36 - 134				09/06/13 17:50	09/10/13 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/05/13 13:14	1
<b>Barium</b>	<b>0.85</b>		0.50	0.010	mg/L		09/04/13 09:50	09/05/13 13:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/05/13 13:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/13 09:50	09/05/13 13:14	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:14	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 13:14	1
<b>Copper</b>	<b>0.032</b>		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:14	1
Iron	<0.20		0.20	0.20	mg/L		09/04/13 09:50	09/05/13 13:14	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/04/13 09:50	09/05/13 13:14	1
<b>Manganese</b>	<b>0.32</b>		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:14	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:14	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/05/13 13:14	1
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 13:14	1
<b>Zinc</b>	<b>0.58</b>		0.10	0.020	mg/L		09/04/13 09:50	09/05/13 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.027</b>	<b>J</b>	0.050	0.010	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Barium</b>	<b>0.91</b>		0.50	0.010	mg/L		09/04/13 09:50	09/10/13 02:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/10/13 02:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Chromium</b>	<b>0.076</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Cobalt</b>	<b>0.021</b>	<b>J</b>	0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Copper</b>	<b>0.098</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Iron</b>	<b>71</b>		0.20	0.20	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Lead</b>	<b>0.034</b>		0.0075	0.0050	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Nickel</b>	<b>0.083</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:19	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/10/13 02:19	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813**

**Lab Sample ID: 500-62029-3**

Date Collected: 08/28/13 09:55

Matrix: Solid

Date Received: 08/28/13 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 02:19	1
<b>Zinc</b>	<b>0.67</b>	<b>B</b>	0.10	0.020	mg/L		09/04/13 09:50	09/10/13 02:19	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>11000</b>	<b>B</b>	10	0.95	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Arsenic</b>	<b>8.5</b>		0.52	0.10	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Barium</b>	<b>40</b>	<b>B</b>	0.52	0.055	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Beryllium</b>	<b>0.85</b>		0.21	0.018	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Cadmium</b>	<b>0.32</b>		0.10	0.013	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Calcium</b>	<b>33000</b>	<b>B</b>	10	2.8	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Chromium</b>	<b>28</b>		0.52	0.060	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Cobalt</b>	<b>9.6</b>		0.26	0.019	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Copper</b>	<b>26</b>	<b>B</b>	0.52	0.046	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Iron</b>	<b>21000</b>		10	4.3	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Lead</b>	<b>14</b>		0.26	0.077	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Magnesium</b>	<b>22000</b>	<b>B</b>	5.2	1.1	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Manganese</b>	<b>370</b>	<b>B</b>	0.52	0.028	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Nickel</b>	<b>25</b>	<b>B</b>	0.52	0.051	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Potassium</b>	<b>1800</b>		26	1.6	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Sodium</b>	<b>520</b>	<b>B</b>	52	6.9	mg/Kg	☼	08/30/13 11:30	09/09/13 16:57	1
<b>Thallium</b>	<b>0.55</b>		0.52	0.22	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Vanadium</b>	<b>24</b>	<b>B</b>	0.26	0.038	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1
<b>Zinc</b>	<b>52</b>		1.0	0.21	mg/Kg	☼	08/30/13 11:30	09/09/13 16:57	1
<b>Strontium</b>	<b>18</b>	<b>^ B</b>	0.26	0.010	mg/Kg	☼	08/30/13 11:30	09/03/13 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.079</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.14</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>28</b>		18	8.3	ug/Kg	☼	08/29/13 14:45	08/30/13 10:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.80</b>		0.200	0.200	SU			09/10/13 15:36	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813D**

**Lab Sample ID: 500-62029-4**

**Date Collected: 08/28/13 09:55**

**Matrix: Solid**

**Date Received: 08/28/13 14:40**

**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	*		08/30/13 17:05	1
Benzene	<5.7		5.7	0.78	ug/Kg	*		08/30/13 17:05	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	*		08/30/13 17:05	1
Bromoform	<5.7		5.7	1.3	ug/Kg	*		08/30/13 17:05	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	*		08/30/13 17:05	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	*		08/30/13 17:05	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	*		08/30/13 17:05	1
Chlorobenzene	<5.7		5.7	0.57	ug/Kg	*		08/30/13 17:05	1
Chloroethane	<5.7		5.7	1.5	ug/Kg	*		08/30/13 17:05	1
Chloroform	<5.7		5.7	0.65	ug/Kg	*		08/30/13 17:05	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	*		08/30/13 17:05	1
cis-1,2-Dichloroethene	<5.7		5.7	0.80	ug/Kg	*		08/30/13 17:05	1
cis-1,3-Dichloropropene	<5.7		5.7	0.74	ug/Kg	*		08/30/13 17:05	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	*		08/30/13 17:05	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	*		08/30/13 17:05	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	*		08/30/13 17:05	1
1,1-Dichloroethene	<5.7		5.7	0.92	ug/Kg	*		08/30/13 17:05	1
1,2-Dichloropropane	<5.7		5.7	0.86	ug/Kg	*		08/30/13 17:05	1
1,3-Dichloropropene, Total	<5.7		5.7	0.74	ug/Kg	*		08/30/13 17:05	1
Ethylbenzene	<5.7		5.7	1.1	ug/Kg	*		08/30/13 17:05	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	*		08/30/13 17:05	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	*		08/30/13 17:05	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	*		08/30/13 17:05	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	*		08/30/13 17:05	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	*		08/30/13 17:05	1
Styrene	<5.7		5.7	0.74	ug/Kg	*		08/30/13 17:05	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.1	ug/Kg	*		08/30/13 17:05	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	*		08/30/13 17:05	1
Toluene	<5.7		5.7	0.79	ug/Kg	*		08/30/13 17:05	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	*		08/30/13 17:05	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	*		08/30/13 17:05	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	*		08/30/13 17:05	1
1,1,2-Trichloroethane	<5.7		5.7	0.77	ug/Kg	*		08/30/13 17:05	1
Trichloroethene	<5.7		5.7	0.93	ug/Kg	*		08/30/13 17:05	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	*		08/30/13 17:05	1
Xylenes, Total	<11		11	0.51	ug/Kg	*		08/30/13 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 122		08/30/13 17:05	1
Dibromofluoromethane	102		75 - 120		08/30/13 17:05	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134		08/30/13 17:05	1
Toluene-d8 (Surr)	96		75 - 122		08/30/13 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	*	09/06/13 17:50	09/10/13 14:24	1
1,2-Dichlorobenzene	<190		190	40	ug/Kg	*	09/06/13 17:50	09/10/13 14:24	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	*	09/06/13 17:50	09/10/13 14:24	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	*	09/06/13 17:50	09/10/13 14:24	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	*	09/06/13 17:50	09/10/13 14:24	1

TestAmerica Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813D**

**Lab Sample ID: 500-62029-4**

**Date Collected: 08/28/13 09:55**

**Matrix: Solid**

**Date Received: 08/28/13 14:40**

**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	110	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2,4,6-Trichlorophenol	<370		370	46	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2,4-Dinitrophenol	<750		750	190	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2-Methylphenol	<190		190	49	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2-Nitroaniline	<190		190	67	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
3 & 4 Methylphenol	<190		190	70	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
3-Nitroaniline	<370		370	71	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
4,6-Dinitro-2-methylphenol	<370 *		370	90	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
4-Bromophenyl phenyl ether	<190		190	41	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
4-Chloroaniline	<750		750	110	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
4-Chlorophenyl phenyl ether	<190		190	58	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
4-Nitrophenol	<750		750	200	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Acenaphthene	<37		37	11	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Acenaphthylene	<37		37	8.5	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Anthracene	<37		37	8.7	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
<b>Benzo[a]anthracene</b>	<b>8.1 J</b>		37	7.8	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
<b>Benzo[a]pyrene</b>	<b>9.8 J</b>		37	6.7	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
<b>Benzo[b]fluoranthene</b>	<b>12 J</b>		37	7.2	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
<b>Benzo[g,h,i]perylene</b>	<b>12 J</b>		37	12	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
<b>Benzo[k]fluoranthene</b>	<b>9.2 J</b>		37	8.8	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Butyl benzyl phthalate	<190		190	46	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Carbazole	<190		190	52	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
<b>Chrysene</b>	<b>11 J</b>		37	8.4	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Dibenz(a,h)anthracene	<37		37	10	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Dibenzofuran	<190		190	44	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Dimethyl phthalate	<190		190	46	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Di-n-octyl phthalate	<190		190	75	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Fluoranthene	<37		37	15	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Fluorene	<37		37	8.4	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Hexachlorobenzene	<75		75	7.3	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Hexachlorocyclopentadiene	<750		750	170	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Hexachloroethane	<190		190	39	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813D**

**Lab Sample ID: 500-62029-4**

Date Collected: 08/28/13 09:55

Matrix: Solid

Date Received: 08/28/13 14:40

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	12	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Isophorone	<190		190	41	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Naphthalene	<37		37	7.1	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Nitrobenzene	<37		37	11	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Pentachlorophenol	<750		750	190	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Phenanthrene	<37		37	15	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Phenol	<190		190	59	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
Pyrene	<37		37	13	ug/Kg	☼	09/06/13 17:50	09/10/13 14:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol	89		35 - 137				09/06/13 17:50	09/10/13 14:24	1
2-Fluorobiphenyl	73		25 - 119				09/06/13 17:50	09/10/13 14:24	1
2-Fluorophenol	66		25 - 110				09/06/13 17:50	09/10/13 14:24	1
Nitrobenzene-d5	56		25 - 115				09/06/13 17:50	09/10/13 14:24	1
Phenol-d5	73		31 - 110				09/06/13 17:50	09/10/13 14:24	1
Terphenyl-d14	97		36 - 134				09/06/13 17:50	09/10/13 14:24	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		09/04/13 09:50	09/05/13 13:19	1
<b>Barium</b>	<b>0.77</b>		0.50	0.010	mg/L		09/04/13 09:50	09/05/13 13:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/05/13 13:19	1
<b>Cadmium</b>	<b>0.0021</b>	<b>J</b>	0.0050	0.0020	mg/L		09/04/13 09:50	09/05/13 13:19	1
Chromium	<0.025		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:19	1
Cobalt	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 13:19	1
<b>Copper</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:19	1
Iron	<0.20		0.20	0.20	mg/L		09/04/13 09:50	09/05/13 13:19	1
Lead	<0.0075		0.0075	0.0050	mg/L		09/04/13 09:50	09/05/13 13:19	1
<b>Manganese</b>	<b>0.34</b>		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:19	1
Nickel	<0.025		0.025	0.010	mg/L		09/04/13 09:50	09/05/13 13:19	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/05/13 13:19	1
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/05/13 13:19	1
<b>Zinc</b>	<b>0.45</b>		0.10	0.020	mg/L		09/04/13 09:50	09/05/13 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.018</b>	<b>J</b>	0.050	0.010	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Barium</b>	<b>0.81</b>		0.50	0.010	mg/L		09/04/13 09:50	09/10/13 02:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		09/04/13 09:50	09/10/13 02:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Chromium</b>	<b>0.045</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Cobalt</b>	<b>0.014</b>	<b>J</b>	0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Copper</b>	<b>0.073</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Iron</b>	<b>43</b>		0.20	0.20	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Lead</b>	<b>0.022</b>		0.0075	0.0050	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Manganese</b>	<b>0.23</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Nickel</b>	<b>0.049</b>		0.025	0.010	mg/L		09/04/13 09:50	09/10/13 02:40	1
Selenium	<0.050		0.050	0.010	mg/L		09/04/13 09:50	09/10/13 02:40	1

TestAmerica Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

**Client Sample ID: B-1(0-2)-082813D**

**Lab Sample ID: 500-62029-4**

Date Collected: 08/28/13 09:55

Matrix: Solid

Date Received: 08/28/13 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.0050	mg/L		09/04/13 09:50	09/10/13 02:40	1
<b>Zinc</b>	<b>0.63</b>	<b>B</b>	0.10	0.020	mg/L		09/04/13 09:50	09/10/13 02:40	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>12000</b>	<b>B</b>	11	1.0	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Arsenic</b>	<b>10</b>		0.56	0.11	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Barium</b>	<b>49</b>	<b>B</b>	0.56	0.060	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Beryllium</b>	<b>0.77</b>		0.22	0.020	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Cadmium</b>	<b>0.42</b>		0.11	0.014	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Calcium</b>	<b>45000</b>	<b>B</b>	11	3.0	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Chromium</b>	<b>19</b>		0.56	0.065	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Cobalt</b>	<b>10</b>		0.28	0.020	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Copper</b>	<b>28</b>	<b>B</b>	0.56	0.049	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Iron</b>	<b>23000</b>		11	4.6	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Lead</b>	<b>14</b>		0.28	0.083	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Magnesium</b>	<b>29000</b>	<b>B</b>	5.6	1.1	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Manganese</b>	<b>430</b>	<b>B</b>	0.56	0.030	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Nickel</b>	<b>26</b>	<b>B</b>	0.56	0.055	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Potassium</b>	<b>2200</b>		28	1.7	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Sodium</b>	<b>630</b>	<b>B</b>	56	7.5	mg/Kg	☼	08/30/13 11:30	09/09/13 17:10	1
<b>Thallium</b>	<b>0.42</b>	<b>J</b>	0.56	0.24	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Vanadium</b>	<b>25</b>	<b>B</b>	0.28	0.041	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1
<b>Zinc</b>	<b>62</b>		1.1	0.23	mg/Kg	☼	08/30/13 11:30	09/09/13 17:10	1
<b>Strontium</b>	<b>22</b>	<b>^ B</b>	0.28	0.011	mg/Kg	☼	08/30/13 11:30	09/03/13 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.056</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 09:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.091</b>	<b>J B</b>	0.20	0.020	ug/L		09/04/13 15:00	09/05/13 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>26</b>		18	8.6	ug/Kg	☼	08/29/13 14:45	08/30/13 10:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.80</b>		0.200	0.200	SU			09/10/13 15:39	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

## Qualifiers

### 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.
F	MS/MSD Recovery and/or RPD exceeds the control limits

### Metals

Qualifier	Qualifier Description
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	Duplicate RPD exceeds the control limit
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD 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
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 - Hoffman Estates - 012

TestAmerica Job ID: 500-62029-1

## Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-14
South Carolina	State Program	4	77001	09-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

\* Expired certification is currently pending renewal and is considered valid.





# TestAmerica

THE LEADER IN ENVIRONMENTAL

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



500-62029 COC

Report To (optional)  
Contact: S. Balasubramanian  
Company: Weston  
Address: 700 E. Bunker Ct. Ste 500  
Address: Narrow Mills, IL 60061  
Phone: 847-918-4018  
Fax:  
E-Mail:

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

## Chain of Custody Record

Lab Job #: 500-62029  
Chain of Custody Number:  
Page 1 of 1  
Temperature °C of Cooler: 37

Client		Client Project #		Preservative		Parameter												Preservative Key		
<u>Weston</u>																		1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name		Lab Project #		Sampling		Matrix												Comments		
<u>IDOT-012</u>				Date Time		# of Containers Matrix														
Project Location/State		Lab PM																		
<u>Hoffman Estates/IL</u>		<u>D. Wright</u>																		
Sampler																				
<u>T. Walls</u>																				
1		<u>B-3(0-2)-082813</u>		<u>8-28-13</u>	<u>0935</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
2		<u>B-2(0-2)-082813</u>		<u>8-28-13</u>	<u>0945</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
3		<u>B-1(0-2)-082813</u>		<u>8-28-13</u>	<u>0955</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
4		<u>B-1(0-2)-082813D</u>		<u>8-28-13</u>	<u>0955</u>	<u>2</u>	<u>S</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<del>7-Well 8-28-13</del>																				

Turnaround Time Required (Business Days)

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

Sample Disposal

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

Relinquished By <u>T. Walls</u>	Company <u>Weston</u>	Date <u>8-28-13</u>	Time <u>1250</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>8/28/13</u>	Time <u>1250</u>
Relinquished By <u>JA</u>	Company <u>JA</u>	Date <u>8/29/13</u>	Time <u>1440</u>	Received By <u>JA</u>	Company <u>JA</u>	Date <u>8/28/13</u>	Time <u>1440</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: JA  
Shipped:  
Hand Delivered:

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

Client Comments:

Lab Comments: