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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.186637317 (Decimal Degrees) Longitude: -88.099443210 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.186637317 Longitude: -88.099443210

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION DW-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-10. 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: 500-59594-1.

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 Transporation

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:

8/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-10
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	DW-1(0-1.5)-072213	**Soil Reference Concentrations[A]**
Sample Date	7/22/2013	
Location ID	DW-1	
Depth	0 - 1.5	
Parameter		
Laboratory pH	8.87	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Anthracene	21 J	1.2E+07
Benzo(a)anthracene	160	900 / 1100 / 1800
Benzo(a)pyrene	180	90 / 1300 / 2100
Benzo(b)fluoranthene	200	900 / 1500 / 2100
Benzo(g,h,i)perylene	100	---
Benzo(k)fluoranthene	130	9000
bis(2-Ethylhexyl)phthalate	260	46000
Chrysene	170	88000
Dibenzo(a,h)anthracene	25 J	90 / 200 / 420
Di-N-Octyl phthalate	140 J	1600000
Fluoranthene	300	3100000
Indeno(1,2,3-cd)pyrene	100	900 / 900 / 1600
Naphthalene, SVOC	140	1800
Phenanthrene	150	---
Pyrene	230	2300000
TCL Metals (mg/kg)		
Aluminum, Total	12000	---
Arsenic, Total	8.5 J	11.3 / 13
Barium, Total	62	1500
Beryllium, Total	0.7	22
Cadmium, Total	0.56	5.2
Calcium, Total	38000 J	---
Chromium, Total	18	21
Cobalt, Total	8.9 J	20
Copper, Total	24	2900
Iron, Total	21000	15000 / 15900
Lead, Total	19 J+	107
Magnesium, Total	21000 B	325000
Manganese, Total	400 J	630
Mercury, Total	0.028	0.89
Nickel, Total	24 J-	100
Potassium, Total	2700 B	---
Sodium, Total	990	---
Thallium, Total	0.31 J	2.6
Vanadium, Total	22	550
Zinc, Total	47 J-	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.75	2
Lead, TCLP	0.0068 J	0.0075
Manganese, TCLP	0.48	0.15
Mercury, TCLP	0.00002 J	0.002
Nickel, TCLP	0.01 J	0.1
Zinc, TCLP	0.02 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.028 J	0.05
Barium, SPLP	0.81 B	2
Beryllium, SPLP	0.0041	0.004
Chromium, SPLP	0.09	0.1
Cobalt, SPLP	0.021 J	1
Copper, SPLP	0.11	0.65
Iron, SPLP	80 B	5
Lead, SPLP	0.17	0.0075
Manganese, SPLP	0.45	0.15
Mercury, SPLP	0.00013 J	0.002
Nickel, SPLP	0.086	0.1
Zinc, SPLP	0.59	5

Summary Table of ISGS Site No. 2664-10
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J- - Estimated concentration biased low.

J+ - Estimated concentration biased high.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59594-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/6/2013 4:21:51 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: DW-1(0-1.5)-072213
Date Collected: 07/22/13 08:50
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-1
Matrix: Solid
Percent Solids: 85.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		07/26/13 14:41	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		07/26/13 14:41	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/26/13 14:41	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		07/26/13 14:41	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/26/13 14:41	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		07/26/13 14:41	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/26/13 14:41	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		07/26/13 14:41	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/26/13 14:41	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		07/26/13 14:41	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/26/13 14:41	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/26/13 14:41	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/26/13 14:41	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/26/13 14:41	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/26/13 14:41	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/26/13 14:41	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/26/13 14:41	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/26/13 14:41	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/26/13 14:41	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/26/13 14:41	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/26/13 14:41	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/26/13 14:41	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		07/26/13 14:41	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/26/13 14:41	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/26/13 14:41	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/26/13 14:41	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/26/13 14:41	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		07/26/13 14:41	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/26/13 14:41	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/26/13 14:41	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		07/26/13 14:41	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		07/26/13 14:41	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/26/13 14:41	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/26/13 14:41	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/26/13 14:41	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/26/13 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*		*07/26/13 14:41*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*07/26/13 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*		*07/26/13 14:41*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*07/26/13 14:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	43	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
1,2-Dichlorobenzene	<190		190	42	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2,2'-oxybis[1-chloropropane]	<190		190	42	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

Client Sample ID: DW-1(0-1.5)-072213
Date Collected: 07/22/13 08:50
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-1
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	110	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2,4,6-Trichlorophenol	<380		380	48	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2,4-Dichlorophenol	<380		380	120	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2,4-Dimethylphenol	<380		380	120	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2,4-Dinitrophenol	<770		770	200	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2,6-Dinitrotoluene	<190		190	46	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2-Chlorophenol	<190		190	55	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2-Methylnaphthalene	<190		190	50	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2-Methylphenol	<190		190	51	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2-Nitroaniline	<190		190	69	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
2-Nitrophenol	<380		380	60	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
3 & 4 Methylphenol	<190		190	72	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
3,3'-Dichlorobenzidine	<190		190	32	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
3-Nitroaniline	<380		380	74	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
4,6-Dinitro-2-methylphenol	<380		380	93	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
4-Bromophenyl phenyl ether	<190		190	43	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
4-Chloro-3-methylphenol	<380		380	180	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
4-Chloroaniline	<770		770	120	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
4-Chlorophenyl phenyl ether	<190		190	60	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
4-Nitroaniline	<380		380	78	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
4-Nitrophenol	<770		770	210	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Acenaphthene	<38		38	11	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Acenaphthylene	<38		38	8.8	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Anthracene	**21**	**J**	38	9.0	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Benzo[a]anthracene	**160**		38	8.0	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Benzo[a]pyrene	**180**		38	7.0	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Benzo[b]fluoranthene	**200**		38	7.4	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Benzo[g,h,i]perylene	**100**		38	13	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Benzo[k]fluoranthene	**130**		38	9.1	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Bis(2-chloroethoxy)methane	<190		190	42	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Bis(2-ethylhexyl) phthalate	**260**		190	51	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Butyl benzyl phthalate	<190		190	48	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Carbazole	<190		190	54	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Chrysene	**170**		38	8.6	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Dibenz(a,h)anthracene	**25**	**J**	38	11	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Dibenzofuran	<190		190	46	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Di-n-butyl phthalate	<190		190	48	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Di-n-octyl phthalate	**140**	**J**	190	78	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Fluoranthene	**300**		38	16	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Fluorene	<38		38	8.7	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Hexachlorobenzene	<77		77	7.5	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Hexachlorobutadiene	<190		190	50	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Hexachlorocyclopentadiene	<770		770	180	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Hexachloroethane	<190		190	41	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

Client Sample ID: DW-1(0-1.5)-072213
Date Collected: 07/22/13 08:50
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-1
Matrix: Solid
Percent Solids: 85.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	100		38	13	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Isophorone	<190		190	43	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Naphthalene	140		38	7.4	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Nitrobenzene	<38		38	12	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
N-Nitrosodi-n-propylamine	<190		190	49	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
N-Nitrosodiphenylamine	<190		190	52	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Pentachlorophenol	<770		770	190	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Phenanthrene	150		38	16	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Phenol	<190		190	61	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1
Pyrene	230		38	14	ug/Kg	☼	07/26/13 07:31	08/02/13 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*35 - 137*	*07/26/13 07:31*	*08/02/13 02:37*	*1*
2-Fluorobiphenyl	*75*		*30 - 119*	*07/26/13 07:31*	*08/02/13 02:37*	*1*
2-Fluorophenol	*68*		*30 - 110*	*07/26/13 07:31*	*08/02/13 02:37*	*1*
Nitrobenzene-d5	*69*		*30 - 115*	*07/26/13 07:31*	*08/02/13 02:37*	*1*
Phenol-d5	*78*		*31 - 110*	*07/26/13 07:31*	*08/02/13 02:37*	*1*
Terphenyl-d14	*87*		*36 - 134*	*07/26/13 07:31*	*08/02/13 02:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/25/13 11:00	07/26/13 21:13	1
Barium	0.75		0.50	0.010	mg/L		07/25/13 11:00	07/26/13 21:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/25/13 11:00	07/26/13 21:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/25/13 11:00	07/26/13 21:13	1
Chromium	<0.025		0.025	0.010	mg/L		07/25/13 11:00	07/26/13 21:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/25/13 11:00	07/26/13 21:13	1
Copper	<0.025		0.025	0.010	mg/L		07/25/13 11:00	07/26/13 21:13	1
Iron	<0.20		0.20	0.20	mg/L		07/25/13 11:00	07/26/13 21:13	1
Lead	0.0068	J	0.0075	0.0050	mg/L		07/25/13 11:00	07/26/13 21:13	1
Manganese	0.48		0.025	0.010	mg/L		07/25/13 11:00	07/26/13 21:13	1
Nickel	0.010	J	0.025	0.010	mg/L		07/25/13 11:00	07/26/13 21:13	1
Selenium	<0.050		0.050	0.010	mg/L		07/25/13 11:00	07/26/13 21:13	1
Silver	<0.025		0.025	0.0050	mg/L		07/25/13 11:00	07/26/13 21:13	1
Zinc	0.020	J	0.10	0.020	mg/L		07/25/13 11:00	07/26/13 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.028	J	0.050	0.010	mg/L		07/26/13 12:00	07/29/13 14:00	1
Barium	0.81	B	0.50	0.010	mg/L		07/26/13 12:00	07/29/13 14:00	1
Beryllium	0.0041		0.0040	0.0040	mg/L		07/26/13 12:00	07/29/13 14:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	07/29/13 14:00	1
Chromium	0.090		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:00	1
Cobalt	0.021	J	0.025	0.0050	mg/L		07/26/13 12:00	07/29/13 14:00	1
Copper	0.11		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:00	1
Iron	80	B	0.20	0.20	mg/L		07/26/13 12:00	07/29/13 14:00	1
Lead	0.17		0.0075	0.0050	mg/L		07/26/13 12:00	07/29/13 14:00	1
Manganese	0.45		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:00	1
Nickel	0.086		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:00	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	07/29/13 14:00	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

Client Sample ID: DW-1(0-1.5)-072213
Date Collected: 07/22/13 08:50
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-1
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	0.0050	mg/L		07/26/13 12:00	07/29/13 14:00	1
Zinc	**0.59**		0.10	0.020	mg/L		07/26/13 12:00	07/29/13 14:00	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		11	1.0	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Arsenic	**8.5**		0.56	0.11	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Barium	**62**		0.56	0.060	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Beryllium	**0.70**		0.22	0.020	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Cadmium	**0.56**		0.11	0.014	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Calcium	**38000**	**B**	11	3.0	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Chromium	**18**		0.56	0.065	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Cobalt	**8.9**		0.28	0.020	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Copper	**24**		0.56	0.050	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Iron	**21000**		11	4.6	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Lead	**19**		0.28	0.083	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Magnesium	**21000**	**B**	5.6	1.2	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Manganese	**400**	**B**	0.56	0.030	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Nickel	**24**	**B**	0.56	0.055	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Potassium	**2700**	**B**	28	1.7	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Sodium	**990**		56	7.5	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Thallium	**0.31**	**J**	0.56	0.24	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Vanadium	**22**		0.28	0.041	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1
Zinc	**47**		1.1	0.23	mg/Kg	☼	07/23/13 12:30	07/27/13 08:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**	**J**	0.20	0.020	ug/L		07/25/13 15:00	07/26/13 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**	**J B**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:01	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	**28**		18	8.6	ug/Kg	☼	07/23/13 14:00	07/24/13 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.87**		0.200	0.200	SU			07/30/13 12:21	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

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

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.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-59594 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions Inc.
Address: 750 E Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4000
Fax: 847-918-4055
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59594
Chain of Custody Number:
Page 1 of
Temperature °C of Cooler: 4.4

Client	Client Project #
Weston Solutions Inc.	004
Project Name: IDOT 004 US 12 (Rand Rd)	
Project Location/State: Lake Zurich, IL	Lab Project #
Sampler: M. Doheny-Skubic	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	TCL Metals	TCLP ISPLP Metals	pH	Comments
1		DW-1(0-1.5)-072213	07-22-13 (CAWS)	0850	2	S		X	X	X	X	X	
2		DW-2(0-1.5)-072213	7-22-13	0910	2	S		X	X	X	X	X	
3		DW-2(0-1.5)-0722130	7-22-13	0910	2	S		X	X	X	X	X	
4		DW-3(0-1.5)-072213	7-22-13	0930	2	S		X	X	X	X	X	
5		MS-1(0-1.5)-072213	7-22-13	0945	2	S		X	X	X	X	X	
6		MS-2(0-1.5)-072213	7-22-13	1005	2	S		X	X	X	X	X	
7		RL-1(0-1.5)-072213	7-22-13	1025	2	S		X	X	X	X	X	
8		RL-2(0-1.5)-072213	7-22-13	1040	2	S		X	X	X	X	X	
9		RL-3(0-1.5)-072213	7-22-13	1110	2	S		X	X	X	X	X	
10		RL-4(0-1.5)-072213	7-22-13	1125	2	S		X	X	X	X	X	

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	7-22-13	1520		TAL	7-22-13	1520
	TAL	7-22-13	1635		TA	7/23/13	0700

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

660 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.186316291 (Decimal Degrees) Longitude: -88.097702963 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.186316291 Longitude: -88.097702963

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION FB-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-13. 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: 500-60029-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	FB-1(0.5-1.5)-072913	**Soil Reference Concentrations[A]**
Sample Date	7/29/2013	
Location ID	FB-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.92	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthylene	8.5 J	---
Anthracene	12 J	1.2E+07
Benzo(a)anthracene	120	900 / 1100 / 1800
Benzo(a)pyrene	150	90 / 1300 / 2100
Benzo(b)fluoranthene	230	900 / 1500 / 2100
Benzo(g,h,i)perylene	160	---
Benzo(k)fluoranthene	94	9000
Chrysene	180	88000
Dibenzo(a,h)anthracene	29 J	90 / 200 / 420
Fluoranthene	260	3100000
Indeno(1,2,3-cd)pyrene	120	900 / 900 / 1600
Phenanthrene	99	---
Pyrene	220	2300000
TCL Metals (mg/kg)		
Aluminum, Total	8400	---
Antimony, Total	0.58 J	5
Arsenic, Total	7.2	11.3 / 13
Barium, Total	46	1500
Beryllium, Total	0.48	22
Cadmium, Total	0.26 B	5.2
Calcium, Total	60000 B	---
Chromium, Total	16	21
Cobalt, Total	10	20
Copper, Total	21 B	2900
Iron, Total	17000	15000 / 15900
Lead, Total	22	107
Magnesium, Total	27000 B	325000
Manganese, Total	380 B	630
Mercury, Total	0.025	0.89
Nickel, Total	26	100
Potassium, Total	1700 B	---
Sodium, Total	320	---
Thallium, Total	0.32 J	2.6
Vanadium, Total	18	550
Zinc, Total	63 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.78	2
Cadmium, TCLP	0.0022 J	0.005
Copper, TCLP	0.011 J	0.65
Manganese, TCLP	1.2	0.15
Selenium, TCLP	0.011 J	0.05
Zinc, TCLP	0.36	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.022 J	0.05
Barium, SPLP	0.80	2
Chromium, SPLP	0.070	0.1
Cobalt, SPLP	0.020 J	1
Copper, SPLP	0.080	0.65
Iron, SPLP	67	5
Lead, SPLP	0.045	0.0075
Manganese, SPLP	0.30	0.15
Mercury, SPLP	0.00 J	0.002
Nickel, SPLP	0.073	0.1
Zinc, SPLP	0.70	5

Summary Table of ISGS Site No. 2664-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-60029-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/12/2013 4:01:19 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: FB-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:55
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-3
Matrix: Solid
Percent Solids: 90.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.6		5.6	2.4	ug/Kg	☼		08/07/13 01:45	1
Benzene	<5.6		5.6	0.76	ug/Kg	☼		08/07/13 01:45	1
Bromodichloromethane	<5.6		5.6	0.96	ug/Kg	☼		08/07/13 01:45	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/07/13 01:45	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/07/13 01:45	1
Carbon disulfide	<5.6		5.6	0.83	ug/Kg	☼		08/07/13 01:45	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 01:45	1
Chlorobenzene	<5.6		5.6	0.56	ug/Kg	☼		08/07/13 01:45	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 01:45	1
Chloroform	<5.6		5.6	0.64	ug/Kg	☼		08/07/13 01:45	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 01:45	1
cis-1,2-Dichloroethene	<5.6		5.6	0.79	ug/Kg	☼		08/07/13 01:45	1
cis-1,3-Dichloropropene	<5.6		5.6	0.73	ug/Kg	☼		08/07/13 01:45	1
Dibromochloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/07/13 01:45	1
1,1-Dichloroethane	<5.6		5.6	0.88	ug/Kg	☼		08/07/13 01:45	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		08/07/13 01:45	1
1,1-Dichloroethene	<5.6		5.6	0.90	ug/Kg	☼		08/07/13 01:45	1
1,2-Dichloropropane	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 01:45	1
1,3-Dichloropropene, Total	<5.6		5.6	0.73	ug/Kg	☼		08/07/13 01:45	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 01:45	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/07/13 01:45	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 01:45	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/07/13 01:45	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 01:45	1
Methyl tert-butyl ether	<5.6		5.6	0.92	ug/Kg	☼		08/07/13 01:45	1
Styrene	<5.6		5.6	0.73	ug/Kg	☼		08/07/13 01:45	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 01:45	1
Tetrachloroethene	<5.6		5.6	0.85	ug/Kg	☼		08/07/13 01:45	1
Toluene	<5.6		5.6	0.78	ug/Kg	☼		08/07/13 01:45	1
trans-1,2-Dichloroethene	<5.6		5.6	0.76	ug/Kg	☼		08/07/13 01:45	1
trans-1,3-Dichloropropene	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 01:45	1
1,1,1-Trichloroethane	<5.6		5.6	0.83	ug/Kg	☼		08/07/13 01:45	1
1,1,2-Trichloroethane	<5.6		5.6	0.76	ug/Kg	☼		08/07/13 01:45	1
Trichloroethene	<5.6		5.6	0.92	ug/Kg	☼		08/07/13 01:45	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 01:45	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		08/07/13 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*		*08/07/13 01:45*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*08/07/13 01:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/07/13 01:45*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*08/07/13 01:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
1,2-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
1,3-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
1,4-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2,2'-oxybis[1-chloropropane]	<180		180	39	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: FB-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:55
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-3
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	100	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2,4,6-Trichlorophenol	<350		350	44	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2,4-Dichlorophenol	<350		350	110	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2,4-Dimethylphenol	<350		350	110	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2,4-Dinitrophenol	<710		710	180	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2,4-Dinitrotoluene	<180		180	54	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2,6-Dinitrotoluene	<180		180	42	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2-Chlorophenol	<180		180	50	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2-Methylnaphthalene	<180		180	46	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2-Methylphenol	<180		180	47	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2-Nitroaniline	<180		180	63	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
2-Nitrophenol	<350		350	55	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
3 & 4 Methylphenol	<180		180	67	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
3,3'-Dichlorobenzidine	<180		180	29	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
3-Nitroaniline	<350		350	68	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
4,6-Dinitro-2-methylphenol	<350		350	85	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
4-Bromophenyl phenyl ether	<180		180	39	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
4-Chloro-3-methylphenol	<350		350	170	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
4-Chloroaniline	<710		710	110	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
4-Chlorophenyl phenyl ether	<180		180	55	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
4-Nitroaniline	<350		350	72	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
4-Nitrophenol	<710		710	190	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Acenaphthene	<35		35	11	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Acenaphthylene	**8.5**	**J**	35	8.1	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Anthracene	**12**	**J**	35	8.3	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Benzo[a]anthracene	**120**		35	7.4	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Benzo[a]pyrene	**150**		35	6.4	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Benzo[b]fluoranthene	**230**		35	6.8	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Benzo[g,h,i]perylene	**160**		35	12	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Benzo[k]fluoranthene	**94**		35	8.4	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Bis(2-chloroethoxy)methane	<180		180	39	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Bis(2-ethylhexyl) phthalate	<180		180	47	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Butyl benzyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Carbazole	<180		180	49	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Chrysene	**180**		35	7.9	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Dibenz(a,h)anthracene	**29**	**J**	35	9.8	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Dibenzofuran	<180		180	42	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Dimethyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Di-n-butyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Di-n-octyl phthalate	<180		180	71	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Fluoranthene	**260**		35	14	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Fluorene	<35		35	8.0	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Hexachlorobenzene	<71		71	6.9	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Hexachlorobutadiene	<180		180	46	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Hexachlorocyclopentadiene	<710		710	160	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Hexachloroethane	<180		180	37	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: FB-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:55
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-3
Matrix: Solid
Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	120		35	12	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Isophorone	<180		180	39	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Naphthalene	<35		35	6.8	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Nitrobenzene	<35		35	11	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
N-Nitrosodiphenylamine	<180		180	47	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Pentachlorophenol	<710		710	180	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Phenanthrene	99		35	15	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Phenol	<180		180	56	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1
Pyrene	220		35	13	ug/Kg	☼	08/08/13 18:15	08/12/13 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*35 - 137*	*08/08/13 18:15*	*08/12/13 09:29*	*1*
2-Fluorobiphenyl	*79*		*30 - 119*	*08/08/13 18:15*	*08/12/13 09:29*	*1*
2-Fluorophenol	*66*		*30 - 110*	*08/08/13 18:15*	*08/12/13 09:29*	*1*
Nitrobenzene-d5	*63*		*30 - 115*	*08/08/13 18:15*	*08/12/13 09:29*	*1*
Phenol-d5	*70*		*31 - 110*	*08/08/13 18:15*	*08/12/13 09:29*	*1*
Terphenyl-d14	*85*		*36 - 134*	*08/08/13 18:15*	*08/12/13 09:29*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 15:50	1
Barium	0.78		0.50	0.010	mg/L		08/07/13 13:30	08/08/13 15:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 15:50	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 15:50	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:50	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 15:50	1
Copper	0.011	J	0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:50	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 15:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 15:50	1
Manganese	1.2		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:50	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:50	1
Selenium	0.011	J	0.050	0.010	mg/L		08/07/13 13:30	08/08/13 15:50	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 15:50	1
Zinc	0.36		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 15:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.022	J	0.050	0.010	mg/L		08/07/13 13:30	08/09/13 20:00	1
Barium	0.80		0.50	0.010	mg/L		08/07/13 13:30	08/09/13 20:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/09/13 20:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/09/13 20:00	1
Chromium	0.070		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 20:00	1
Cobalt	0.020	J	0.025	0.0050	mg/L		08/07/13 13:30	08/09/13 20:00	1
Copper	0.080		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 20:00	1
Iron	67		0.20	0.20	mg/L		08/07/13 13:30	08/09/13 20:00	1
Lead	0.045		0.0075	0.0050	mg/L		08/07/13 13:30	08/09/13 20:00	1
Manganese	0.30		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 20:00	1
Nickel	0.073		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 20:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/09/13 20:00	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: FB-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:55
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-3
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	0.0050	mg/L		08/07/13 13:30	08/09/13 20:00	1
Zinc	0.70		0.10	0.020	mg/L		08/07/13 13:30	08/09/13 20:00	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8400		11	1.0	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Antimony	0.58	J	1.1	0.44	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Arsenic	7.2		0.55	0.11	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Barium	46		0.55	0.058	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Beryllium	0.48		0.22	0.019	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Cadmium	0.26	B	0.11	0.014	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Calcium	60000	B	110	30	mg/Kg	☼	07/30/13 08:12	07/31/13 17:21	10
Chromium	16		0.55	0.063	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Cobalt	10		0.27	0.019	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Copper	21	B	0.55	0.048	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Iron	17000		11	4.5	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Lead	22		0.27	0.081	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Magnesium	27000	B	5.5	1.1	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Manganese	380	B	0.55	0.030	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Nickel	26		0.55	0.054	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Potassium	1700	B	27	1.6	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Selenium	0.56		0.55	0.19	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Sodium	320		55	7.3	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Thallium	0.32	J	0.55	0.23	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Vanadium	18		0.27	0.040	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1
Zinc	63	B	1.1	0.22	mg/Kg	☼	07/30/13 08:12	07/30/13 23:34	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/07/13 15:15	08/08/13 10:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:33	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	25		18	8.3	ug/Kg	☼	07/30/13 17:45	07/31/13 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.92		0.200	0.200	SU			08/12/13 11:14	1

Qualifiers

GC/MS Semi VOA

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

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.
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.

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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-60029 COC

Chain of Custody Record

Lab Job #: 500-60029

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 3.6, 3.9

Report To (optional)	Bill To (optional)
Contact: S. Balukuvar	Contact:
Company: Weston	Company:
Address: 750 E. Butler Ct Ste 500	Address:
Address: Vernon Hills, IL 60061	Address: Same
Phone: 847-918-4018	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT - 004

Project Location/State: Lake Zurich / 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	Parameter: VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH	Comments
1		SM-1 (0.5-1.5) - ~~022~~ 072913	7-29-13	1130	2	S	X	X	X	X	X	
2		SM-2 (0.5-1.5) - 072913	↓	1140	↓	↓	↓	↓	↓	↓	↓	
3		FB-1 (0.5-1.5) - 072913		1155	↓	↓	↓	↓	↓	↓	↓	
4		FB-2 (0.5-1.5) - 072913	7-29-13	1215	2	S	X	X	X	X	X	

T. Walls 7-29-13

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	Weston	7-29-13	1340		TAL	7-29-13	1340
	TAL	7-29-13	1530		TA-CHI	7/29/13	1530

Lab Courier: TA

Shipped:

Hand Delivered:

Matrix Key

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

Client Comments:

Lab Comments:

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

664-668 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.186055171 (Decimal Degrees) Longitude: -88.096120227 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.186055171 Longitude: -88.096120227

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 SM-1 AND SM-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-14. 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: 500-60029-1.

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 Transporation

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:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-14
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	SM-1(0.5-1.5)-072913	SM-2(0.5-1.5)-072913	Soil Reference Concentrations[A]
Sample Date	7/29/2013	7/29/2013	
Location ID	SM-1	SM-2	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.81	8.17	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	21 J	33 J	900 / 1100 / 1800
Benzo(a)pyrene	25 J	36 J	90 / 1300 / 2100
Benzo(b)fluoranthene	34	60	900 / 1500 / 2100
Benzo(g,h,i)perylene	32 J	41	---
Benzo(k)fluoranthene	19 J	20 J	9000
Chrysene	28 J	49	88000
Dibenzo(a,h)anthracene	14 J	10 J	90 / 200 / 420
Fluoranthene	31 J	62	3100000
Indeno(1,2,3-cd)pyrene	24 J	31 J	900 / 900 / 1600
Phenanthrene	ND	29 J	---
Pyrene	29 J	53	2300000
TCL Metals (mg/kg)			
Aluminum, Total	4800	11000	---
Antimony, Total	0.74 J	ND	5
Arsenic, Total	9.5	8.4	11.3 / 13
Barium, Total	23	62	1500
Beryllium, Total	0.29	0.61	22
Cadmium, Total	0.33 B	0.26 B	5.2
Calcium, Total	95000 B	19000 B	---
Chromium, Total	8.8	16	21
Cobalt, Total	9.3	15	20
Copper, Total	23 B	20 B	2900
Iron, Total	15000	20000	15000 / 15900
Lead, Total	14	25	107
Magnesium, Total	43000 B	12000 B	325000
Manganese, Total	430 B	580 B	630
Mercury, Total	0.018	0.033	0.89
Nickel, Total	22	27	100
Potassium, Total	1100 B	1700 B	---
Sodium, Total	310	660	---
Thallium, Total	0.31 J	0.32 J	2.6
Vanadium, Total	11	22	550
Zinc, Total	67 B	68 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.72	0.94	2
Cadmium, TCLP	0.0027 J	0.0021 J	0.005
Copper, TCLP	0.014 J	0.023 J	0.65
Lead, TCLP	ND	0.0056 J	0.0075
Manganese, TCLP	0.98	1.1	0.15
Zinc, TCLP	0.4	0.41	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.02 J	0.05
Barium, SPLP	0.5	0.8	2
Chromium, SPLP	0.019 J	0.079	0.1
Cobalt, SPLP	ND	0.022 J	1
Copper, SPLP	0.042 J	0.084	0.65
Iron, SPLP	21 J	72	5
Lead, SPLP	0.013 J	0.043	0.0075
Manganese, SPLP	0.1 J	0.35	0.15
Nickel, SPLP	0.018 J	0.079	0.1
Zinc, SPLP	0.43 J	0.69	5

Summary Table of ISGS Site No. 2664-14
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-60029-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/12/2013 4:01:19 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: SM-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:30
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-1
Matrix: Solid
Percent Solids: 94.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	☼		08/07/13 00:58	1
Benzene	<5.3		5.3	0.73	ug/Kg	☼		08/07/13 00:58	1
Bromodichloromethane	<5.3		5.3	0.91	ug/Kg	☼		08/07/13 00:58	1
Bromoform	<5.3		5.3	1.2	ug/Kg	☼		08/07/13 00:58	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	☼		08/07/13 00:58	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	☼		08/07/13 00:58	1
Carbon tetrachloride	<5.3		5.3	0.97	ug/Kg	☼		08/07/13 00:58	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	☼		08/07/13 00:58	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	☼		08/07/13 00:58	1
Chloroform	<5.3		5.3	0.61	ug/Kg	☼		08/07/13 00:58	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	☼		08/07/13 00:58	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	☼		08/07/13 00:58	1
cis-1,3-Dichloropropene	<5.3		5.3	0.70	ug/Kg	☼		08/07/13 00:58	1
Dibromochloromethane	<5.3		5.3	0.92	ug/Kg	☼		08/07/13 00:58	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	☼		08/07/13 00:58	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		08/07/13 00:58	1
1,1-Dichloroethene	<5.3		5.3	0.86	ug/Kg	☼		08/07/13 00:58	1
1,2-Dichloropropane	<5.3		5.3	0.81	ug/Kg	☼		08/07/13 00:58	1
1,3-Dichloropropene, Total	<5.3		5.3	0.70	ug/Kg	☼		08/07/13 00:58	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	☼		08/07/13 00:58	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	☼		08/07/13 00:58	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	☼		08/07/13 00:58	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		08/07/13 00:58	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	☼		08/07/13 00:58	1
Methyl tert-butyl ether	<5.3		5.3	0.88	ug/Kg	☼		08/07/13 00:58	1
Styrene	<5.3		5.3	0.70	ug/Kg	☼		08/07/13 00:58	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	☼		08/07/13 00:58	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	☼		08/07/13 00:58	1
Toluene	<5.3		5.3	0.74	ug/Kg	☼		08/07/13 00:58	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	☼		08/07/13 00:58	1
trans-1,3-Dichloropropene	<5.3		5.3	0.95	ug/Kg	☼		08/07/13 00:58	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	☼		08/07/13 00:58	1
1,1,2-Trichloroethane	<5.3		5.3	0.72	ug/Kg	☼		08/07/13 00:58	1
Trichloroethene	<5.3		5.3	0.88	ug/Kg	☼		08/07/13 00:58	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	☼		08/07/13 00:58	1
Xylenes, Total	<11		11	0.48	ug/Kg	☼		08/07/13 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 122*		*08/07/13 00:58*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/07/13 00:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*08/07/13 00:58*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*08/07/13 00:58*	*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	39	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
1,2-Dichlorobenzene	<170		170	37	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
1,3-Dichlorobenzene	<170		170	36	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
1,4-Dichlorobenzene	<170		170	36	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2,2'-oxybis[1-chloropropane]	<170		170	38	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: SM-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:30
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-1
Matrix: Solid
Percent Solids: 94.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	97	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2,4,6-Trichlorophenol	<340		340	43	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2,4-Dichlorophenol	<340		340	100	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2,4-Dimethylphenol	<340		340	110	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2,4-Dinitrophenol	<690		690	170	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2,4-Dinitrotoluene	<170		170	52	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2,6-Dinitrotoluene	<170		170	40	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2-Chlorophenol	<170		170	49	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2-Methylnaphthalene	<170		170	44	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2-Methylphenol	<170		170	45	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2-Nitroaniline	<170		170	61	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
2-Nitrophenol	<340		340	53	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
3 & 4 Methylphenol	<170		170	64	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
3,3'-Dichlorobenzidine	<170		170	28	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
3-Nitroaniline	<340		340	66	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
4,6-Dinitro-2-methylphenol	<340		340	83	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
4-Bromophenyl phenyl ether	<170		170	38	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
4-Chloro-3-methylphenol	<340		340	160	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
4-Chloroaniline	<690		690	100	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
4-Chlorophenyl phenyl ether	<170		170	54	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
4-Nitroaniline	<340		340	70	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
4-Nitrophenol	<690		690	180	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Acenaphthene	<34		34	10	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Acenaphthylene	<34		34	7.8	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Anthracene	<34		34	8.0	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Benzo[a]anthracene	**21**	**J**	34	7.1	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Benzo[a]pyrene	**25**	**J**	34	6.2	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Benzo[b]fluoranthene	**34**		34	6.6	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Benzo[g,h,i]perylene	**32**	**J**	34	11	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Benzo[k]fluoranthene	**19**	**J**	34	8.1	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Bis(2-chloroethoxy)methane	<170		170	38	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Bis(2-ethylhexyl) phthalate	<170		170	45	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Butyl benzyl phthalate	<170		170	43	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Carbazole	<170		170	48	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Chrysene	**28**	**J**	34	7.7	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Dibenz(a,h)anthracene	**14**	**J**	34	9.5	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Dibenzofuran	<170		170	41	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Dimethyl phthalate	<170		170	42	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Di-n-butyl phthalate	<170		170	43	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Di-n-octyl phthalate	<170		170	69	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Fluoranthene	**31**	**J**	34	14	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Fluorene	<34		34	7.7	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Hexachlorobenzene	<69		69	6.7	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Hexachlorobutadiene	<170		170	45	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Hexachlorocyclopentadiene	<690		690	160	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Hexachloroethane	<170		170	36	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1

Client Sample ID: SM-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:30
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-1
Matrix: Solid
Percent Solids: 94.3

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	**24**	**J**	34	11	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Isophorone	<170		170	38	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Naphthalene	<34		34	6.6	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Nitrobenzene	<34		34	11	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
N-Nitrosodi-n-propylamine	<170		170	43	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
N-Nitrosodiphenylamine	<170		170	46	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Pentachlorophenol	<690		690	170	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Phenanthrene	<34		34	14	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Phenol	<170		170	54	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1
Pyrene	**29**	**J**	34	12	ug/Kg	☼	08/08/13 17:40	08/12/13 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*35 - 137*	*08/08/13 17:40*	*08/12/13 07:41*	*1*
2-Fluorobiphenyl	*76*		*30 - 119*	*08/08/13 17:40*	*08/12/13 07:41*	*1*
2-Fluorophenol	*64*		*30 - 110*	*08/08/13 17:40*	*08/12/13 07:41*	*1*
Nitrobenzene-d5	*64*		*30 - 115*	*08/08/13 17:40*	*08/12/13 07:41*	*1*
Phenol-d5	*68*		*31 - 110*	*08/08/13 17:40*	*08/12/13 07:41*	*1*
Terphenyl-d14	*92*		*36 - 134*	*08/08/13 17:40*	*08/12/13 07:41*	*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		08/07/13 13:30	08/08/13 15:32	1
Barium	**0.72**		0.50	0.010	mg/L		08/07/13 13:30	08/08/13 15:32	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 15:32	1
Cadmium	**0.0027**	**J**	0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 15:32	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:32	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 15:32	1
Copper	**0.014**	**J**	0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:32	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 15:32	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 15:32	1
Manganese	**0.98**		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:32	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:32	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 15:32	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 15:32	1
Zinc	**0.40**		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/09/13 19:41	1
Barium	**0.50**		0.50	0.010	mg/L		08/07/13 13:30	08/09/13 19:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/09/13 19:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/09/13 19:41	1
Chromium	**0.019**	**J**	0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:41	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/09/13 19:41	1
Copper	**0.042**		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:41	1
Iron	**21**		0.20	0.20	mg/L		08/07/13 13:30	08/09/13 19:41	1
Lead	**0.013**		0.0075	0.0050	mg/L		08/07/13 13:30	08/09/13 19:41	1
Manganese	**0.10**		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:41	1
Nickel	**0.018**	**J**	0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:41	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/09/13 19:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: SM-1(0.5-1.5)-072913
Date Collected: 07/29/13 11:30
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-1
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	0.0050	mg/L		08/07/13 13:30	08/09/13 19:41	1
Zinc	**0.43**		0.10	0.020	mg/L		08/07/13 13:30	08/09/13 19:41	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4800**		11	0.97	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Antimony	**0.74**	**J**	1.1	0.42	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Arsenic	**9.5**		0.53	0.11	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Barium	**23**		0.53	0.057	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Beryllium	**0.29**		0.21	0.019	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Cadmium	**0.33**	**B**	0.11	0.013	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Calcium	**95000**	**B**	110	29	mg/Kg	☼	07/30/13 08:12	07/31/13 17:17	10
Chromium	**8.8**		0.53	0.061	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Cobalt	**9.3**		0.26	0.019	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Copper	**23**	**B**	0.53	0.047	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Iron	**15000**		11	4.3	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Lead	**14**		0.26	0.079	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Magnesium	**43000**	**B**	5.3	1.1	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Manganese	**430**	**B**	0.53	0.029	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Nickel	**22**		0.53	0.052	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Potassium	**1100**	**B**	26	1.6	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Selenium	**0.56**		0.53	0.19	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Sodium	**310**		53	7.1	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Thallium	**0.31**	**J**	0.53	0.22	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Vanadium	**11**		0.26	0.039	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1
Zinc	**67**	**B**	1.1	0.21	mg/Kg	☼	07/30/13 08:12	07/30/13 23:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/07/13 15:15	08/08/13 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.070**	**J**	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:25	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	**18**		18	8.3	ug/Kg	☼	07/30/13 17:45	07/31/13 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.81**		0.200	0.200	SU			08/12/13 10:59	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: SM-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-2
Matrix: Solid
Percent Solids: 87.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	☼		08/07/13 01:21	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		08/07/13 01:21	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	☼		08/07/13 01:21	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/07/13 01:21	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/07/13 01:21	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		08/07/13 01:21	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/07/13 01:21	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		08/07/13 01:21	1
Chloroethane	<5.7		5.7	1.5	ug/Kg	☼		08/07/13 01:21	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		08/07/13 01:21	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 01:21	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		08/07/13 01:21	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		08/07/13 01:21	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	☼		08/07/13 01:21	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		08/07/13 01:21	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		08/07/13 01:21	1
1,1-Dichloroethene	<5.7		5.7	0.92	ug/Kg	☼		08/07/13 01:21	1
1,2-Dichloropropane	<5.7		5.7	0.86	ug/Kg	☼		08/07/13 01:21	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		08/07/13 01:21	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 01:21	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		08/07/13 01:21	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		08/07/13 01:21	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		08/07/13 01:21	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/07/13 01:21	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	☼		08/07/13 01:21	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		08/07/13 01:21	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 01:21	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		08/07/13 01:21	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		08/07/13 01:21	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	☼		08/07/13 01:21	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/07/13 01:21	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/07/13 01:21	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		08/07/13 01:21	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	☼		08/07/13 01:21	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 01:21	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		08/07/13 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*08/07/13 01:21*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/07/13 01:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*08/07/13 01:21*	*1*
Toluene-d8 (Surr)	*97*		*75 - 122*		*08/07/13 01:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: SM-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-2
Matrix: Solid
Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2,4,6-Trichlorophenol	<370		370	47	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2,4-Dinitrophenol	<750		750	190	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2-Methylphenol	<190		190	49	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2-Nitroaniline	<190		190	67	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
3 & 4 Methylphenol	<190		190	70	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
3-Nitroaniline	<370		370	72	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
4-Bromophenyl phenyl ether	<190		190	42	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
4-Chloroaniline	<750		750	110	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
4-Chlorophenyl phenyl ether	<190		190	59	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
4-Nitrophenol	<750		750	200	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Acenaphthylene	<37		37	8.5	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Anthracene	<37		37	8.7	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Benzo[a]anthracene	**33**	**J**	37	7.8	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Benzo[a]pyrene	**36**	**J**	37	6.8	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Benzo[b]fluoranthene	**60**		37	7.2	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Benzo[g,h,i]perylene	**41**		37	13	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Benzo[k]fluoranthene	**20**	**J**	37	8.9	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Butyl benzyl phthalate	<190		190	47	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Carbazole	<190		190	52	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Chrysene	**49**		37	8.4	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Dibenz(a,h)anthracene	**10**	**J**	37	10	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Dimethyl phthalate	<190		190	46	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Di-n-octyl phthalate	<190		190	75	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Fluoranthene	**62**		37	15	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Fluorene	<37		37	8.5	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Hexachlorobenzene	<75		75	7.3	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Hexachlorocyclopentadiene	<750		750	170	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Hexachloroethane	<190		190	40	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: SM-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-2
Matrix: Solid
Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	31	J	37	13	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Isophorone	<190		190	41	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Naphthalene	<37		37	7.2	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Nitrobenzene	<37		37	12	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Pentachlorophenol	<750		750	190	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Phenanthrene	29	J	37	16	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Phenol	<190		190	59	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1
Pyrene	53		37	13	ug/Kg	☼	08/08/13 17:40	08/12/13 07:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*35 - 137*	*08/08/13 17:40*	*08/12/13 07:59*	*1*
2-Fluorobiphenyl	*74*		*30 - 119*	*08/08/13 17:40*	*08/12/13 07:59*	*1*
2-Fluorophenol	*63*		*30 - 110*	*08/08/13 17:40*	*08/12/13 07:59*	*1*
Nitrobenzene-d5	*57*		*30 - 115*	*08/08/13 17:40*	*08/12/13 07:59*	*1*
Phenol-d5	*64*		*31 - 110*	*08/08/13 17:40*	*08/12/13 07:59*	*1*
Terphenyl-d14	*80*		*36 - 134*	*08/08/13 17:40*	*08/12/13 07:59*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 15:37	1
Barium	0.94		0.50	0.010	mg/L		08/07/13 13:30	08/08/13 15:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 15:37	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 15:37	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 15:37	1
Copper	0.023	J	0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:37	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 15:37	1
Lead	0.0056	J	0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 15:37	1
Manganese	1.1		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:37	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 15:37	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 15:37	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 15:37	1
Zinc	0.41		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.020	J	0.050	0.010	mg/L		08/07/13 13:30	08/09/13 19:57	1
Barium	0.80		0.50	0.010	mg/L		08/07/13 13:30	08/09/13 19:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/09/13 19:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/09/13 19:57	1
Chromium	0.079		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:57	1
Cobalt	0.022	J	0.025	0.0050	mg/L		08/07/13 13:30	08/09/13 19:57	1
Copper	0.084		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:57	1
Iron	72		0.20	0.20	mg/L		08/07/13 13:30	08/09/13 19:57	1
Lead	0.043		0.0075	0.0050	mg/L		08/07/13 13:30	08/09/13 19:57	1
Manganese	0.35		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:57	1
Nickel	0.079		0.025	0.010	mg/L		08/07/13 13:30	08/09/13 19:57	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/09/13 19:57	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

Client Sample ID: SM-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60029-2
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	0.0050	mg/L		08/07/13 13:30	08/09/13 19:57	1
Zinc	**0.69**		0.10	0.020	mg/L		08/07/13 13:30	08/09/13 19:57	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		11	1.0	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Arsenic	**8.4**		0.56	0.11	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Barium	**62**		0.56	0.060	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Beryllium	**0.61**		0.22	0.020	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Cadmium	**0.26**	**B**	0.11	0.014	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Calcium	**19000**	**B**	11	3.0	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Chromium	**16**		0.56	0.065	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Cobalt	**15**		0.28	0.020	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Copper	**20**	**B**	0.56	0.049	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Iron	**20000**		11	4.6	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Lead	**25**		0.28	0.083	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Magnesium	**12000**	**B**	5.6	1.1	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Manganese	**580**	**B**	0.56	0.030	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Nickel	**27**		0.56	0.055	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Potassium	**1700**	**B**	28	1.7	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Selenium	**0.70**		0.56	0.20	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Sodium	**660**		56	7.5	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Thallium	**0.32**	**J**	0.56	0.24	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Vanadium	**22**		0.28	0.041	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1
Zinc	**68**	**B**	1.1	0.23	mg/Kg	☼	07/30/13 08:12	07/30/13 23:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/07/13 15:15	08/08/13 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**	**J**	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:31	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	**33**		18	8.4	ug/Kg	☼	07/30/13 17:45	07/31/13 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.17**		0.200	0.200	SU			08/12/13 11:07	1

Qualifiers

GC/MS Semi VOA

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

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.
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.

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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-60029-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-60029 COC

Chain of Custody Record

Lab Job #: 500-60029

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 3.6, 3.9

Report To (optional)	Bill To (optional)
Contact: S. Balukuvar	Contact:
Company: Weston	Company:
Address: 750 E. Butler Ct Ste 500	Address:
Address: Vernon Hills, IL 60061	Address: Same
Phone: 847-918-4018	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: Weston | Client Project #:

Project Name: IDOT - 004

Project Location/State: Lake Zurich / 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	Parameter: VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH	Comments
1		SM-1 (0.5-1.5) - ~~022~~ 072913	7-29-13	1130	2	S	X	X	X	X	X	
2		SM-2 (0.5-1.5) - 072913	↓	1140	↓	↓	↓	↓	↓	↓	↓	
3		FB-1 (0.5-1.5) - 072913		1155	↓	↓	↓	↓	↓	↓	↓	
4		FB-2 (0.5-1.5) - 072913	7-29-13	1215	2	S	X	X	X	X	X	

T. Walls 7-29-13

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	Weston	7-29-13	1340		TAL	7-29-13	1340
	TAL	7-29-13	1530		TA-CHI	7/29/13	1530

Lab Courier: TA

Shipped:

Hand Delivered:

Matrix Key

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

Client Comments:

Lab Comments:

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

755 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.18536643 (Decimal Degrees) Longitude: -88.094640182 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.18536643 Longitude: -88.094640182

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION RL-4 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-15. SEE FIGURE 3-2 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: 500-59594-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	RL-4(0-1.5)-072213	**Soil Reference Concentrations[A]**
Sample Date	7/22/2013	
Location ID	RL-4	
Depth	0 - 1.5	
Parameter		
Laboratory pH	8.5	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	25 J	900 / 1100 / 1800
Benzo(a)pyrene	36 J	90 / 1300 / 2100
Benzo(b)fluoranthene	52	900 / 1500 / 2100
Benzo(g,h,i)perylene	42	---
Benzo(k)fluoranthene	20 J	9000
Chrysene	38 J	88000
Dibenzo(a,h)anthracene	11 J	90 / 200 / 420
Fluoranthene	57	3100000
Indeno(1,2,3-cd)pyrene	30 J	900 / 900 / 1600
Phenanthrene	21 J	---
Pyrene	47	2300000
TCL Metals (mg/kg)		
Aluminum, Total	13000	---
Arsenic, Total	10	11.3 / 13
Barium, Total	81	1500
Beryllium, Total	0.75	22
Cadmium, Total	0.6	5.2
Calcium, Total	15000 B	---
Chromium, Total	18	21
Cobalt, Total	10	20
Copper, Total	28	2900
Iron, Total	22000	15000 / 15900
Lead, Total	69	107
Magnesium, Total	9700 B	325000
Manganese, Total	500 B	630
Mercury, Total	0.035	0.89
Nickel, Total	23 B	100
Potassium, Total	1800 B	---
Sodium, Total	2200	---
Thallium, Total	0.37 J	2.6
Vanadium, Total	26	550
Zinc, Total	65	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.74	2
Lead, TCLP	0.0075	0.0075
Manganese, TCLP	0.57	0.15
Mercury, TCLP	0.000021 J	0.002
Zinc, TCLP	0.35	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.061	0.05
Barium, SPLP	0.83 B	2
Beryllium, SPLP	0.0059	0.004
Cadmium, SPLP	0.0025 J	0.005
Chromium, SPLP	0.15	0.1
Cobalt, SPLP	0.036	1
Copper, SPLP	0.17	0.65
Iron, SPLP	170 B	5
Lead, SPLP	0.25	0.0075
Manganese, SPLP	0.69	0.15
Mercury, SPLP	0.00022 B	0.002
Nickel, SPLP	0.17	0.1
Zinc, SPLP	0.78	5

Summary Table of ISGS Site No. 2664-15
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59594-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/6/2013 4:21:51 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: RL-4(0-1.5)-072213
Date Collected: 07/22/13 11:25
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-10
Matrix: Solid
Percent Solids: 77.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.4		6.4	2.8	ug/Kg	☼		07/26/13 18:58	1
Benzene	<6.4		6.4	0.88	ug/Kg	☼		07/26/13 18:58	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/26/13 18:58	1
Bromoform	<6.4		6.4	1.5	ug/Kg	☼		07/26/13 18:58	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	☼		07/26/13 18:58	1
Carbon disulfide	<6.4		6.4	0.96	ug/Kg	☼		07/26/13 18:58	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	☼		07/26/13 18:58	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	☼		07/26/13 18:58	1
Chloroethane	<6.4		6.4	1.7	ug/Kg	☼		07/26/13 18:58	1
Chloroform	<6.4		6.4	0.74	ug/Kg	☼		07/26/13 18:58	1
Chloromethane	<6.4		6.4	1.3	ug/Kg	☼		07/26/13 18:58	1
cis-1,2-Dichloroethene	<6.4		6.4	0.91	ug/Kg	☼		07/26/13 18:58	1
cis-1,3-Dichloropropene	<6.4		6.4	0.84	ug/Kg	☼		07/26/13 18:58	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	☼		07/26/13 18:58	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	☼		07/26/13 18:58	1
1,2-Dichloroethane	<6.4		6.4	0.95	ug/Kg	☼		07/26/13 18:58	1
1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	☼		07/26/13 18:58	1
1,2-Dichloropropane	<6.4		6.4	0.98	ug/Kg	☼		07/26/13 18:58	1
1,3-Dichloropropene, Total	<6.4		6.4	0.84	ug/Kg	☼		07/26/13 18:58	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	☼		07/26/13 18:58	1
2-Hexanone	<6.4		6.4	1.9	ug/Kg	☼		07/26/13 18:58	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	☼		07/26/13 18:58	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		07/26/13 18:58	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	☼		07/26/13 18:58	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	☼		07/26/13 18:58	1
Styrene	<6.4		6.4	0.84	ug/Kg	☼		07/26/13 18:58	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	☼		07/26/13 18:58	1
Tetrachloroethene	<6.4		6.4	0.98	ug/Kg	☼		07/26/13 18:58	1
Toluene	<6.4		6.4	0.90	ug/Kg	☼		07/26/13 18:58	1
trans-1,2-Dichloroethene	<6.4		6.4	0.88	ug/Kg	☼		07/26/13 18:58	1
trans-1,3-Dichloropropene	<6.4		6.4	1.2	ug/Kg	☼		07/26/13 18:58	1
1,1,1-Trichloroethane	<6.4		6.4	0.96	ug/Kg	☼		07/26/13 18:58	1
1,1,2-Trichloroethane	<6.4		6.4	0.88	ug/Kg	☼		07/26/13 18:58	1
Trichloroethene	<6.4		6.4	1.1	ug/Kg	☼		07/26/13 18:58	1
Vinyl chloride	<6.4		6.4	1.3	ug/Kg	☼		07/26/13 18:58	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		07/26/13 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*07/26/13 18:58*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*07/26/13 18:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 134*		*07/26/13 18:58*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*07/26/13 18:58*	*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	47	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
1,2-Dichlorobenzene	<210		210	45	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
1,3-Dichlorobenzene	<210		210	43	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
1,4-Dichlorobenzene	<210		210	43	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2,2'-oxybis[1-chloropropane]	<210		210	46	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

Client Sample ID: RL-4(0-1.5)-072213
Date Collected: 07/22/13 11:25
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-10
Matrix: Solid
Percent Solids: 77.8

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	120	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2,4,6-Trichlorophenol	<410		410	52	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2,4-Dichlorophenol	<410		410	120	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2,4-Dimethylphenol	<410		410	130	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2,4-Dinitrophenol	<830		830	210	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2,4-Dinitrotoluene	<210		210	63	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2,6-Dinitrotoluene	<210		210	49	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2-Chloronaphthalene	<210		210	46	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2-Chlorophenol	<210		210	59	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2-Methylnaphthalene	<210		210	53	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2-Methylphenol	<210		210	55	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2-Nitroaniline	<210		210	74	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
2-Nitrophenol	<410		410	64	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
3 & 4 Methylphenol	<210		210	78	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
3,3'-Dichlorobenzidine	<210		210	34	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
3-Nitroaniline	<410		410	79	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
4,6-Dinitro-2-methylphenol	<410		410	100	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
4-Bromophenyl phenyl ether	<210		210	46	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
4-Chloro-3-methylphenol	<410		410	200	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
4-Chloroaniline	<830		830	120	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
4-Chlorophenyl phenyl ether	<210		210	65	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
4-Nitroaniline	<410		410	84	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
4-Nitrophenol	<830		830	220	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Acenaphthene	<41		41	12	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Acenaphthylene	<41		41	9.4	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Anthracene	<41		41	9.7	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Benzo[a]anthracene	**25**	**J**	41	8.6	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Benzo[a]pyrene	**36**	**J**	41	7.5	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Benzo[b]fluoranthene	**52**		41	8.0	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Benzo[g,h,i]perylene	**42**		41	14	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Benzo[k]fluoranthene	**20**	**J**	41	9.8	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Bis(2-chloroethoxy)methane	<210		210	45	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Bis(2-chloroethyl)ether	<210		210	61	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Bis(2-ethylhexyl) phthalate	<210		210	54	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Butyl benzyl phthalate	<210		210	51	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Carbazole	<210		210	58	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Chrysene	**38**	**J**	41	9.3	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Dibenz(a,h)anthracene	**11**	**J**	41	11	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Dibenzofuran	<210		210	49	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Diethyl phthalate	<210		210	69	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Dimethyl phthalate	<210		210	51	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Di-n-butyl phthalate	<210		210	52	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Di-n-octyl phthalate	<210		210	83	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Fluoranthene	**57**		41	17	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Fluorene	<41		41	9.3	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Hexachlorobenzene	<83		83	8.1	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Hexachlorobutadiene	<210		210	54	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Hexachlorocyclopentadiene	<830		830	190	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Hexachloroethane	<210		210	44	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

Client Sample ID: RL-4(0-1.5)-072213
Date Collected: 07/22/13 11:25
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-10
Matrix: Solid
Percent Solids: 77.8

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	30	J	41	14	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Isophorone	<210		210	46	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Naphthalene	<41		41	7.9	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Nitrobenzene	<41		41	13	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
N-Nitrosodi-n-propylamine	<210		210	52	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
N-Nitrosodiphenylamine	<210		210	56	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Pentachlorophenol	<830		830	210	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Phenanthrene	21	J	41	17	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Phenol	<210		210	65	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1
Pyrene	47		41	15	ug/Kg	☼	07/26/13 07:31	08/05/13 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*35 - 137*	*07/26/13 07:31*	*08/05/13 13:46*	*1*
2-Fluorobiphenyl	*68*		*30 - 119*	*07/26/13 07:31*	*08/05/13 13:46*	*1*
2-Fluorophenol	*63*		*30 - 110*	*07/26/13 07:31*	*08/05/13 13:46*	*1*
Nitrobenzene-d5	*50*		*30 - 115*	*07/26/13 07:31*	*08/05/13 13:46*	*1*
Phenol-d5	*64*		*31 - 110*	*07/26/13 07:31*	*08/05/13 13:46*	*1*
Terphenyl-d14	*87*		*36 - 134*	*07/26/13 07:31*	*08/05/13 13:46*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/25/13 11:00	07/26/13 22:09	1
Barium	0.74		0.50	0.010	mg/L		07/25/13 11:00	07/26/13 22:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/25/13 11:00	07/26/13 22:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/25/13 11:00	07/26/13 22:09	1
Chromium	<0.025		0.025	0.010	mg/L		07/25/13 11:00	07/26/13 22:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/25/13 11:00	07/26/13 22:09	1
Copper	<0.025		0.025	0.010	mg/L		07/25/13 11:00	07/26/13 22:09	1
Iron	<0.20		0.20	0.20	mg/L		07/25/13 11:00	07/26/13 22:09	1
Lead	0.0075		0.0075	0.0050	mg/L		07/25/13 11:00	07/26/13 22:09	1
Manganese	0.57		0.025	0.010	mg/L		07/25/13 11:00	07/26/13 22:09	1
Nickel	<0.025		0.025	0.010	mg/L		07/25/13 11:00	07/26/13 22:09	1
Selenium	<0.050		0.050	0.010	mg/L		07/25/13 11:00	07/26/13 22:09	1
Silver	<0.025		0.025	0.0050	mg/L		07/25/13 11:00	07/26/13 22:09	1
Zinc	0.35		0.10	0.020	mg/L		07/25/13 11:00	07/26/13 22:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.061		0.050	0.010	mg/L		07/26/13 12:00	07/29/13 14:48	1
Barium	0.83	B	0.50	0.010	mg/L		07/26/13 12:00	07/29/13 14:48	1
Beryllium	0.0059		0.0040	0.0040	mg/L		07/26/13 12:00	07/29/13 14:48	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		07/26/13 12:00	07/29/13 14:48	1
Chromium	0.15		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:48	1
Cobalt	0.036		0.025	0.0050	mg/L		07/26/13 12:00	07/29/13 14:48	1
Copper	0.17		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:48	1
Iron	170	B	0.20	0.20	mg/L		07/26/13 12:00	07/29/13 14:48	1
Lead	0.25		0.0075	0.0050	mg/L		07/26/13 12:00	07/29/13 14:48	1
Manganese	0.69		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:48	1
Nickel	0.17		0.025	0.010	mg/L		07/26/13 12:00	07/29/13 14:48	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	07/29/13 14:48	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

Client Sample ID: RL-4(0-1.5)-072213
Date Collected: 07/22/13 11:25
Date Received: 07/23/13 07:00

Lab Sample ID: 500-59594-10
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	0.0050	mg/L		07/26/13 12:00	07/29/13 14:48	1
Zinc	**0.78**		0.10	0.020	mg/L		07/26/13 12:00	07/29/13 14:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		13	1.2	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Antimony	<1.3		1.3	0.51	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Arsenic	**10**		0.63	0.13	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Barium	**81**		0.63	0.068	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Beryllium	**0.75**		0.25	0.022	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Cadmium	**0.60**		0.13	0.016	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Calcium	**15000**	**B**	13	3.4	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Chromium	**18**		0.63	0.074	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Cobalt	**10**		0.32	0.023	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Copper	**28**		0.63	0.056	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Iron	**22000**		13	5.2	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Lead	**69**		0.32	0.095	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Magnesium	**9700**	**B**	6.3	1.3	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Manganese	**500**	**B**	0.63	0.034	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Nickel	**23**	**B**	0.63	0.062	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Potassium	**1800**	**B**	32	1.9	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Selenium	<0.63		0.63	0.23	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Silver	<0.32		0.32	0.023	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Sodium	**2200**		63	8.5	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Thallium	**0.37**	**J**	0.63	0.27	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Vanadium	**26**		0.32	0.047	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1
Zinc	**65**		1.3	0.26	mg/Kg	☼	07/23/13 12:30	07/27/13 10:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**	**J**	0.20	0.020	ug/L		07/25/13 15:00	07/26/13 09:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**	**B**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 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	**35**		19	8.9	ug/Kg	☼	07/23/13 14:00	07/24/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.50**		0.200	0.200	SU			07/30/13 12:34	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

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

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.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59594-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-59594 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston Solutions Inc.
Address: 750 E Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4000
Fax: 847-918-4055
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59594
Chain of Custody Number:
Page 1 of
Temperature °C of Cooler: 4.4

Client	Client Project #
Weston Solutions Inc.	004
Project Name: IDOT 004 US 12 (Rand Rd)	
Project Location/State: Lake Zurich, IL	Lab Project #
Sampler: M. Doheny-Skubic	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	TCL Metals	TCLP ISPLP Metals	pH	Comments
1		DW-1(0-1.5)-072213	07-22-13 (CAWS)	0850	2	S		X	X	X	X	X	
2		DW-2(0-1.5)-072213	7-22-13	0910	2	S		X	X	X	X	X	
3		DW-2(0-1.5)-0722130	7-22-13	0910	2	S		X	X	X	X	X	
4		DW-3(0-1.5)-072213	7-22-13	0930	2	S		X	X	X	X	X	
5		MS-1(0-1.5)-072213	7-22-13	0945	2	S		X	X	X	X	X	
6		MS-2(0-1.5)-072213	7-22-13	1005	2	S		X	X	X	X	X	
7		RL-1(0-1.5)-072213	7-22-13	1025	2	S		X	X	X	X	X	
8		RL-2(0-1.5)-072213	7-22-13	1040	2	S		X	X	X	X	X	
9		RL-3(0-1.5)-072213	7-22-13	1110	2	S		X	X	X	X	X	
10		RL-4(0-1.5)-072213	7-22-13	1125	2	S		X	X	X	X	X	

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	7-22-13	1520		TAL	7-22-13	1520
	TAL	7-22-13	1635		TA	7/23/13	0700

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

676 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.185734884 (Decimal Degrees) Longitude: -88.094961457 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.185734884 Longitude: -88.094961457

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 TF-1 AND TF-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-16. SEE FIGURES 3-1 AND 3-2 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: 500-60028-1.

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 Transporation

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:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-16
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	TF-1(0.5-1.5)-072913	TF-2(0.5-1.5)-072913	**Soil Reference Concentrations[A]**
Sample Date	7/29/2013	7/29/2013	
Location ID	TF-1	TF-2	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.88	8.89	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Anthracene	ND	20 J	1.2E+07
Benzo(a)anthracene	72	180	900 / 1100 / 1800
Benzo(a)pyrene	87	210	90 / 1300 / 2100
Benzo(b)fluoranthene	150	440	900 / 1500 / 2100
Benzo(g,h,i)perylene	93	240	---
Benzo(k)fluoranthene	51	130	9000
Chrysene	99	240	88000
Dibenzo(a,h)anthracene	15 J	57	90 / 200 / 420
Fluoranthene	160	430	3100000
Indeno(1,2,3-cd)pyrene	77	170	900 / 900 / 1600
Phenanthrene	76	150	---
Pyrene	150	350	2300000
TCL Metals (mg/kg)			
Aluminum, Total	9000 B	7400 B	---
Arsenic, Total	9.3	8.1	11.3 / 13
Barium, Total	38	37	1500
Beryllium, Total	0.52	0.49	22
Cadmium, Total	0.29	0.4	5.2
Calcium, Total	27000 B	58000 B	---
Chromium, Total	15	15	21
Cobalt, Total	13	10	20
Copper, Total	33 B	29 B	2900
Iron, Total	20000	18000	15000 / 15900
Lead, Total	52	53	107
Magnesium, Total	18000 B	26000 B	325000
Manganese, Total	410	360	630
Mercury, Total	0.027	0.022	0.89
Nickel, Total	32	26	100
Potassium, Total	1300	1400	---
Sodium, Total	740	1600	---
Thallium, Total	0.46 J	0.29 J	2.6
Vanadium, Total	18	17	550
Zinc, Total	80 B	83 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.62 B	0.72 B	2
Copper, TCLP	0.047	ND	0.65
Manganese, TCLP	0.59	0.58	0.15
Mercury, TCLP	J	J	0.002
Nickel, TCLP	0.015 J	ND	0.1
SPLP Metals (mg/l)			
Arsenic, SPLP	0.01 J	0.066	0.05
Barium, SPLP	0.62 B	0.96 B	2
Beryllium, SPLP	ND	0.007	0.004
Cadmium, SPLP	ND	0.003 J	0.005
Chromium, SPLP	0.032	0.16	0.1
Cobalt, SPLP	0.0094 J	0.066	1
Copper, SPLP	0.077	0.23	0.65
Iron, SPLP	34	180	5
Lead, SPLP	0.049	0.24	0.0075
Manganese, SPLP	0.19	0.77	0.15
Nickel, SPLP	0.04	0.2	0.1
Zinc, SPLP	0.52	1	5

Summary Table of ISGS Site No. 2664-16
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-60028-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/13/2013 2:28:21 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: TF-1(0.5-1.5)-072913
Date Collected: 07/29/13 10:50
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-17
Matrix: Solid
Percent Solids: 89.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.6		5.6	2.4	ug/Kg	☼		08/07/13 06:24	1
Benzene	<5.6		5.6	0.77	ug/Kg	☼		08/07/13 06:24	1
Bromodichloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/07/13 06:24	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/07/13 06:24	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/07/13 06:24	1
Carbon disulfide	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 06:24	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 06:24	1
Chlorobenzene	<5.6		5.6	0.57	ug/Kg	☼		08/07/13 06:24	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 06:24	1
Chloroform	<5.6		5.6	0.65	ug/Kg	☼		08/07/13 06:24	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 06:24	1
cis-1,2-Dichloroethene	<5.6		5.6	0.79	ug/Kg	☼		08/07/13 06:24	1
cis-1,3-Dichloropropene	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 06:24	1
Dibromochloromethane	<5.6		5.6	0.98	ug/Kg	☼		08/07/13 06:24	1
1,1-Dichloroethane	<5.6		5.6	0.89	ug/Kg	☼		08/07/13 06:24	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		08/07/13 06:24	1
1,1-Dichloroethene	<5.6		5.6	0.91	ug/Kg	☼		08/07/13 06:24	1
1,2-Dichloropropane	<5.6		5.6	0.85	ug/Kg	☼		08/07/13 06:24	1
1,3-Dichloropropene, Total	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 06:24	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 06:24	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/07/13 06:24	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 06:24	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/07/13 06:24	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 06:24	1
Methyl tert-butyl ether	<5.6		5.6	0.93	ug/Kg	☼		08/07/13 06:24	1
Styrene	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 06:24	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 06:24	1
Tetrachloroethene	<5.6		5.6	0.86	ug/Kg	☼		08/07/13 06:24	1
Toluene	<5.6		5.6	0.79	ug/Kg	☼		08/07/13 06:24	1
trans-1,2-Dichloroethene	<5.6		5.6	0.77	ug/Kg	☼		08/07/13 06:24	1
trans-1,3-Dichloropropene	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 06:24	1
1,1,1-Trichloroethane	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 06:24	1
1,1,2-Trichloroethane	<5.6		5.6	0.77	ug/Kg	☼		08/07/13 06:24	1
Trichloroethene	<5.6		5.6	0.93	ug/Kg	☼		08/07/13 06:24	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 06:24	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		08/07/13 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 122*		*08/07/13 06:24*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*08/07/13 06:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*08/07/13 06:24*	*1*
Toluene-d8 (Surr)	*94*		*75 - 122*		*08/07/13 06:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: TF-1(0.5-1.5)-072913
Date Collected: 07/29/13 10:50
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-17
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2,4-Dinitrophenol	<730		730	190	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2,6-Dinitrotoluene	<180		180	43	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2-Methylnaphthalene	<180		180	47	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2-Methylphenol	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2-Nitroaniline	<180		180	65	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
3-Nitroaniline	<360		360	70	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
4,6-Dinitro-2-methylphenol	<360		360	88	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
4-Chloro-3-methylphenol	<360		360	170	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
4-Chloroaniline	<730		730	110	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
4-Chlorophenyl phenyl ether	<180		180	57	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
4-Nitroaniline	<360		360	74	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
4-Nitrophenol	<730		730	200	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Acenaphthene	<36		36	11	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Acenaphthylene	<36		36	8.3	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Anthracene	<36		36	8.5	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Benzo[a]anthracene	**72**		36	7.6	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Benzo[a]pyrene	**87**		36	6.6	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Benzo[b]fluoranthene	**150**		36	7.1	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Benzo[g,h,i]perylene	**93**		36	12	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Benzo[k]fluoranthene	**51**		36	8.7	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Bis(2-ethylhexyl) phthalate	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Butyl benzyl phthalate	<180		180	45	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Carbazole	<180		180	51	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Chrysene	**99**		36	8.2	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Dibenz(a,h)anthracene	**15**	**J**	36	10	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Dibenzofuran	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Fluoranthene	**160**		36	15	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Fluorene	<36		36	8.3	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Hexachlorobenzene	<73		73	7.1	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Hexachlorocyclopentadiene	<730		730	170	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Hexachloroethane	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: TF-1(0.5-1.5)-072913
Date Collected: 07/29/13 10:50
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-17
Matrix: Solid
Percent Solids: 89.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	77		36	12	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Isophorone	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Naphthalene	<36		36	7.0	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Nitrobenzene	<36		36	11	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
N-Nitrosodi-n-propylamine	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
N-Nitrosodiphenylamine	<180		180	49	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Pentachlorophenol	<730		730	180	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Phenanthrene	76		36	15	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Phenol	<180		180	57	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1
Pyrene	150		36	13	ug/Kg	☼	08/08/13 07:07	08/13/13 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*35 - 137*	*08/08/13 07:07*	*08/13/13 08:35*	*1*
2-Fluorobiphenyl	*64*		*30 - 119*	*08/08/13 07:07*	*08/13/13 08:35*	*1*
2-Fluorophenol	*64*		*30 - 110*	*08/08/13 07:07*	*08/13/13 08:35*	*1*
Nitrobenzene-d5	*56*		*30 - 115*	*08/08/13 07:07*	*08/13/13 08:35*	*1*
Phenol-d5	*69*		*31 - 110*	*08/08/13 07:07*	*08/13/13 08:35*	*1*
Terphenyl-d14	*78*		*36 - 134*	*08/08/13 07:07*	*08/13/13 08:35*	*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		08/07/13 08:45	08/08/13 09:01	1
Barium	0.62	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 09:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 09:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 09:01	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:01	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 09:01	1
Copper	0.047		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:01	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 09:01	1
Lead	0.0079	B	0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 09:01	1
Manganese	0.59		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:01	1
Nickel	0.015	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:01	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 09:01	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 09:01	1
Zinc	0.26	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 09:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.050	0.010	mg/L		08/07/13 13:30	08/11/13 12:16	1
Barium	0.62	B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 12:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 12:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 12:16	1
Chromium	0.032		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:16	1
Cobalt	0.0094	J	0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 12:16	1
Copper	0.077		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:16	1
Iron	34		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 12:16	1
Lead	0.049		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 12:16	1
Manganese	0.19		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:16	1
Nickel	0.040		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:16	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 12:16	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: TF-1(0.5-1.5)-072913
Date Collected: 07/29/13 10:50
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-17
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	0.0050	mg/L		08/07/13 13:30	08/11/13 12:16	1
Zinc	0.52		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 12:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9000	B	11	1.0	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Arsenic	9.3		0.54	0.11	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Barium	38		0.54	0.058	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Beryllium	0.52		0.22	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Cadmium	0.29		0.11	0.014	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Calcium	27000	B	11	3.0	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Chromium	15		0.54	0.063	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Cobalt	13		0.27	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Copper	33	B	0.54	0.048	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Iron	20000		11	4.5	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Lead	52		0.27	0.081	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Magnesium	18000	B	5.4	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Manganese	410		0.54	0.030	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Nickel	32		0.54	0.053	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Potassium	1300		27	1.6	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Selenium	0.45	J	0.54	0.19	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Sodium	740		54	7.3	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Thallium	0.46	J	0.54	0.23	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Vanadium	18		0.27	0.040	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1
Zinc	80	B	1.1	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 14:44	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058	J B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:11	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	27		18	8.3	ug/Kg	☼	08/02/13 14:30	08/05/13 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.88		0.200	0.200	SU			08/10/13 12:24	1

Client Sample ID: TF-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:05
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-18
Matrix: Solid
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	☼		08/07/13 06:46	1
Benzene	<5.6		5.6	0.76	ug/Kg	☼		08/07/13 06:46	1
Bromodichloromethane	<5.6		5.6	0.96	ug/Kg	☼		08/07/13 06:46	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/07/13 06:46	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/07/13 06:46	1
Carbon disulfide	<5.6		5.6	0.83	ug/Kg	☼		08/07/13 06:46	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 06:46	1
Chlorobenzene	<5.6		5.6	0.56	ug/Kg	☼		08/07/13 06:46	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 06:46	1
Chloroform	<5.6		5.6	0.64	ug/Kg	☼		08/07/13 06:46	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 06:46	1
cis-1,2-Dichloroethene	<5.6		5.6	0.78	ug/Kg	☼		08/07/13 06:46	1
cis-1,3-Dichloropropene	<5.6		5.6	0.73	ug/Kg	☼		08/07/13 06:46	1
Dibromochloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/07/13 06:46	1
1,1-Dichloroethane	<5.6		5.6	0.88	ug/Kg	☼		08/07/13 06:46	1
1,2-Dichloroethane	<5.6		5.6	0.82	ug/Kg	☼		08/07/13 06:46	1
1,1-Dichloroethene	<5.6		5.6	0.90	ug/Kg	☼		08/07/13 06:46	1
1,2-Dichloropropane	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 06:46	1
1,3-Dichloropropene, Total	<5.6		5.6	0.73	ug/Kg	☼		08/07/13 06:46	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 06:46	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/07/13 06:46	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 06:46	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/07/13 06:46	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 06:46	1
Methyl tert-butyl ether	<5.6		5.6	0.92	ug/Kg	☼		08/07/13 06:46	1
Styrene	<5.6		5.6	0.73	ug/Kg	☼		08/07/13 06:46	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 06:46	1
Tetrachloroethene	<5.6		5.6	0.85	ug/Kg	☼		08/07/13 06:46	1
Toluene	<5.6		5.6	0.78	ug/Kg	☼		08/07/13 06:46	1
trans-1,2-Dichloroethene	<5.6		5.6	0.76	ug/Kg	☼		08/07/13 06:46	1
trans-1,3-Dichloropropene	<5.6		5.6	0.99	ug/Kg	☼		08/07/13 06:46	1
1,1,1-Trichloroethane	<5.6		5.6	0.83	ug/Kg	☼		08/07/13 06:46	1
1,1,2-Trichloroethane	<5.6		5.6	0.76	ug/Kg	☼		08/07/13 06:46	1
Trichloroethene	<5.6		5.6	0.92	ug/Kg	☼		08/07/13 06:46	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 06:46	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		08/07/13 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 122*		*08/07/13 06:46*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/07/13 06:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*08/07/13 06:46*	*1*
Toluene-d8 (Surr)	*93*		*75 - 122*		*08/07/13 06:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: TF-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:05
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-18
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2,4-Dinitrophenol	<730		730	190	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2,6-Dinitrotoluene	<180		180	43	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2-Methylnaphthalene	<180		180	47	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2-Methylphenol	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2-Nitroaniline	<180		180	65	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
3-Nitroaniline	<360		360	70	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
4,6-Dinitro-2-methylphenol	<360		360	88	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
4-Chloro-3-methylphenol	<360		360	170	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
4-Chloroaniline	<730		730	110	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
4-Chlorophenyl phenyl ether	<180		180	57	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
4-Nitroaniline	<360		360	74	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
4-Nitrophenol	<730		730	200	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Acenaphthene	<36		36	11	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Acenaphthylene	<36		36	8.3	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Anthracene	**20**	**J**	36	8.5	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Benzo[a]anthracene	**180**		36	7.6	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Benzo[a]pyrene	**210**		36	6.6	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Benzo[b]fluoranthene	**440**		36	7.1	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Benzo[g,h,i]perylene	**240**		36	12	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Benzo[k]fluoranthene	**130**		36	8.7	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Bis(2-ethylhexyl) phthalate	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Butyl benzyl phthalate	<180		180	45	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Carbazole	<180		180	51	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Chrysene	**240**		36	8.2	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Dibenz(a,h)anthracene	**57**		36	10	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Dibenzofuran	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Fluoranthene	**430**		36	15	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Fluorene	<36		36	8.3	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Hexachlorobenzene	<73		73	7.2	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Hexachlorocyclopentadiene	<730		730	170	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Hexachloroethane	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: TF-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:05
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-18
Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	170		36	12	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Isophorone	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Naphthalene	<36		36	7.0	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Nitrobenzene	<36		36	11	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
N-Nitrosodi-n-propylamine	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
N-Nitrosodiphenylamine	<180		180	49	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Pentachlorophenol	<730		730	180	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Phenanthrene	150		36	15	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Phenol	<180		180	58	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1
Pyrene	350		36	13	ug/Kg	☼	08/08/13 07:07	08/12/13 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*35 - 137*	*08/08/13 07:07*	*08/12/13 16:18*	*1*
2-Fluorobiphenyl	*67*		*30 - 119*	*08/08/13 07:07*	*08/12/13 16:18*	*1*
2-Fluorophenol	*57*		*30 - 110*	*08/08/13 07:07*	*08/12/13 16:18*	*1*
Nitrobenzene-d5	*57*		*30 - 115*	*08/08/13 07:07*	*08/12/13 16:18*	*1*
Phenol-d5	*64*		*31 - 110*	*08/08/13 07:07*	*08/12/13 16:18*	*1*
Terphenyl-d14	*84*		*36 - 134*	*08/08/13 07:07*	*08/12/13 16:18*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 09:07	1
Barium	0.72	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 09:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 09:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 09:07	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:07	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 09:07	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:07	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 09:07	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 09:07	1
Manganese	0.58		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:07	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 09:07	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 09:07	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 09:07	1
Zinc	0.29	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 09:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.066		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 12:20	1
Barium	0.96	B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 12:20	1
Beryllium	0.0070		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 12:20	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 12:20	1
Chromium	0.16		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:20	1
Cobalt	0.066		0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 12:20	1
Copper	0.23		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:20	1
Iron	180		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 12:20	1
Lead	0.24		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 12:20	1
Manganese	0.77		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:20	1
Nickel	0.20		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:20	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 12:20	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: TF-2(0.5-1.5)-072913
Date Collected: 07/29/13 11:05
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-18
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	0.0050	mg/L		08/07/13 13:30	08/11/13 12:20	1
Zinc	1.0		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 12:20	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400	B	11	1.0	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Arsenic	8.1		0.55	0.11	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Barium	37		0.55	0.059	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Beryllium	0.49		0.22	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Cadmium	0.40		0.11	0.014	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Calcium	58000	B	110	30	mg/Kg	☼	07/31/13 08:28	08/12/13 14:18	10
Chromium	15		0.55	0.064	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Cobalt	10		0.28	0.020	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Copper	29	B	0.55	0.049	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Iron	18000		11	4.5	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Lead	53		0.28	0.082	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Magnesium	26000	B	5.5	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Manganese	360		0.55	0.030	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Nickel	26		0.55	0.054	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Potassium	1400		28	1.7	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Selenium	0.65		0.55	0.20	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Sodium	1600		55	7.4	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Thallium	0.29	J	0.55	0.23	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Vanadium	17		0.28	0.041	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1
Zinc	83	B	1.1	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 14:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18	J B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:13	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	22		18	8.7	ug/Kg	☼	08/02/13 14:30	08/05/13 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.89		0.200	0.200	SU			08/10/13 12:27	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5

Chain of Custody Record

Lab Job #: 500-60028

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.6, 3.9

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste 500	Address:	
Address:	Vernon Hills, IL	Address:	Same
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Weston	Cli	500-60028 COC
Project Name	IDOT-004		
Project Location/State	Lake Zurich, 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	TCL metals	TCLP/SPLP metals	pH					Comments
1		SM3-2(0.5-1.5)-072913	7-29-13	0740	2	S		X	X	X	X	X					
2		AH-1(0.5-1.5)-072913		0750													
3		YP-1(0.5-1.5)-072913		0800													
4		YP-2(0.5-1.5)-072913		0810													
5		LF-1(0.5-1.5)-072913		0825													
6		LF-2(0.5-1.5)-072913		0835													
7		PH-1(0.5-1.5)-072913		0845													
8		pH-2(0.5-1.5)-072913		0900													
9		SM2-1(0.5-1.5)-072913		0915													
10		SM2-1(0.5-1.5)-072913Dup	7-29-13	0915	2	S		X	X	X	X	X					

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
T. Walls	Weston	7-29-13	1340		TAC	7-29-13	1340
	TAC	7-29-13	1530	Steve Scott	TA-CHI	7/29/13	1530

Lab Courier TA
Shipped
Hand Delivered

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

Client Comments

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, 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 #: 500-60028
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler: 3.6, 3.9

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich / 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	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	PH					Comments
11		SM2-2(0.5-1.5)-072913	7-29-13	0935	2	S	X	X	X	X	X					
12		SM2-3(0.5-1.5)-072913	↓	0945	↓	↓	↓	↓	↓	↓	↓					
13		CC-1(0.5-1.5)-072913	↓	0955	↓	↓	↓	↓	↓	↓	↓					
14		CC-2(0.5-1.5)-072913	↓	1010	↓	↓	↓	↓	↓	↓	↓					
15		CC-3(0.5-1.5)-072913	↓	1025	↓	↓	↓	↓	↓	↓	↓					
16		CC-4(0.5-1.5)-072913	↓	1040	↓	↓	↓	↓	↓	↓	↓					
17		TF-1(0.5-1.5)-072913	↓	1050	↓	↓	↓	↓	↓	↓	↓					
18		TF-2(0.5-1.5)-072913	↓	1105	↓	↓	↓	↓	↓	↓	↓					
19		TF-3(0.5-1.5)-072913	↓	1115	↓	↓	↓	↓	↓	↓	↓					
20		TF-3(0.5-1.5)-072913 Dup	7-29-13	1115	2	S	X	X	X	X	X					

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

Sample Disposal
[ ] Return to Client [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	Weston	7-29-13	1340	[signature]	TA	7-29-13	1340
[signature]	TAL	7-29-13	1530	[signature]	TA-CHI	7/29/13	1530

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

763 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.185204602 (Decimal Degrees) Longitude: -88.094041619 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.185204602 Longitude: -88.094041619

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION BS-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-17. SEE FIGURE 3-2 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: 500-59744-1.

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 Transporation

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:

7/5/14
Date:

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

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

Summary Table of ISGS Site No. 2664-17
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	BS-1(0.5-1.5)-072413	**Soil Reference Concentrations[A]**
Sample Date	7/24/2013	
Location ID	BS-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	7.93	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	9.4 J	900 / 1100 / 1800
Benzo(a)pyrene	7.8 J	90 / 1300 / 2100
Benzo(g,h,i)perylene	19 J	---
Chrysene	18 J	88000
Phenanthrene	31 J	---
TCL Metals (mg/kg)		
Aluminum, Total	6000 B	---
Arsenic, Total	11 J	11.3 / 13
Barium, Total	18	1500
Beryllium, Total	0.42	22
Cadmium, Total	0.82	5.2
Calcium, Total	69000 B	---
Chromium, Total	11	21
Cobalt, Total	8.3	20
Copper, Total	28 J+	2900
Iron, Total	16000 B	15000 / 15900
Lead, Total	12 J	107
Magnesium, Total	32000 B	325000
Manganese, Total	340 B	630
Mercury, Total	0.016 J	0.89
Nickel, Total	21 B	100
Potassium, Total	1900 J+	---
Silver, Total	0.045 J	4.4
Sodium, Total	510	---
Thallium, Total	0.4 J	2.6
Vanadium, Total	13	550
Zinc, Total	48 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.086 J	2
Cobalt, TCLP	0.052	1
Manganese, TCLP	2.2	0.15
Nickel, TCLP	0.05	0.1
SPLP Metals (mg/l)		
Barium, SPLP	0.46 J	2
Iron, SPLP	0.24	5
Zinc, SPLP	0.35	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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J- - Estimated concentration biased low.

J+ - Estimated concentration biased high.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59744-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 4:52:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: BS-1(0.5-1.5)-072413
Date Collected: 07/24/13 08:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-1
Matrix: Solid
Percent Solids: 90.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	☼		08/01/13 00:49	1
Benzene	<5.5		5.5	0.76	ug/Kg	☼		08/01/13 00:49	1
Bromodichloromethane	<5.5		5.5	0.95	ug/Kg	☼		08/01/13 00:49	1
Bromoform	<5.5		5.5	1.3	ug/Kg	☼		08/01/13 00:49	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	☼		08/01/13 00:49	1
Carbon disulfide	<5.5		5.5	0.83	ug/Kg	☼		08/01/13 00:49	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	☼		08/01/13 00:49	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	☼		08/01/13 00:49	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	☼		08/01/13 00:49	1
Chloroform	<5.5		5.5	0.64	ug/Kg	☼		08/01/13 00:49	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	☼		08/01/13 00:49	1
cis-1,2-Dichloroethene	<5.5		5.5	0.78	ug/Kg	☼		08/01/13 00:49	1
cis-1,3-Dichloropropene	<5.5		5.5	0.73	ug/Kg	☼		08/01/13 00:49	1
Dibromochloromethane	<5.5		5.5	0.96	ug/Kg	☼		08/01/13 00:49	1
1,1-Dichloroethane	<5.5		5.5	0.88	ug/Kg	☼		08/01/13 00:49	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		08/01/13 00:49	1
1,1-Dichloroethene	<5.5		5.5	0.89	ug/Kg	☼		08/01/13 00:49	1
1,2-Dichloropropane	<5.5		5.5	0.84	ug/Kg	☼		08/01/13 00:49	1
1,3-Dichloropropene, Total	<5.5		5.5	0.73	ug/Kg	☼		08/01/13 00:49	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	☼		08/01/13 00:49	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	☼		08/01/13 00:49	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	☼		08/01/13 00:49	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		08/01/13 00:49	1
methyl isobutyl ketone	<5.5		5.5	1.4	ug/Kg	☼		08/01/13 00:49	1
Methyl tert-butyl ether	<5.5		5.5	0.91	ug/Kg	☼		08/01/13 00:49	1
Styrene	<5.5		5.5	0.73	ug/Kg	☼		08/01/13 00:49	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	☼		08/01/13 00:49	1
Tetrachloroethene	<5.5		5.5	0.85	ug/Kg	☼		08/01/13 00:49	1
Toluene	<5.5		5.5	0.77	ug/Kg	☼		08/01/13 00:49	1
trans-1,2-Dichloroethene	<5.5		5.5	0.76	ug/Kg	☼		08/01/13 00:49	1
trans-1,3-Dichloropropene	<5.5		5.5	0.99	ug/Kg	☼		08/01/13 00:49	1
1,1,1-Trichloroethane	<5.5		5.5	0.83	ug/Kg	☼		08/01/13 00:49	1
1,1,2-Trichloroethane	<5.5		5.5	0.75	ug/Kg	☼		08/01/13 00:49	1
Trichloroethene	<5.5		5.5	0.91	ug/Kg	☼		08/01/13 00:49	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	☼		08/01/13 00:49	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		08/01/13 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/01/13 00:49*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/01/13 00:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*08/01/13 00:49*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*08/01/13 00:49*	*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	☼	07/30/13 07:34	08/01/13 18:41	1
1,2-Dichlorobenzene	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
1,3-Dichlorobenzene	<180		180	37	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
1,4-Dichlorobenzene	<180		180	37	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2,2'-oxybis[1-chloropropane]	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: BS-1(0.5-1.5)-072413
Date Collected: 07/24/13 08:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-1
Matrix: Solid
Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	100	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2,4,6-Trichlorophenol	<350		350	44	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2,4-Dichlorophenol	<350		350	110	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2,4-Dimethylphenol	<350		350	110	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2,4-Dinitrophenol	<710		710	180	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2,4-Dinitrotoluene	<180		180	54	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2,6-Dinitrotoluene	<180		180	42	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2-Chlorophenol	<180		180	51	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2-Methylnaphthalene	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2-Methylphenol	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2-Nitroaniline	<180		180	64	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
2-Nitrophenol	<350		350	56	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
3 & 4 Methylphenol	<180		180	67	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
3-Nitroaniline	<350		350	68	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
4,6-Dinitro-2-methylphenol	<350		350	86	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
4-Bromophenyl phenyl ether	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
4-Chloro-3-methylphenol	<350		350	170	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
4-Chloroaniline	<710		710	110	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
4-Chlorophenyl phenyl ether	<180		180	56	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
4-Nitroaniline	<350		350	73	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
4-Nitrophenol	<710		710	190	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Acenaphthene	<35		35	11	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Acenaphthylene	<35		35	8.1	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Anthracene	<35		35	8.3	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Benzo[a]anthracene	**9.4**	**J**	35	7.4	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Benzo[a]pyrene	**7.8**	**J**	35	6.4	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Benzo[b]fluoranthene	<35		35	6.9	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Benzo[g,h,i]perylene	**19**	**J**	35	12	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Benzo[k]fluoranthene	<35		35	8.4	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Bis(2-chloroethoxy)methane	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Bis(2-ethylhexyl) phthalate	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Butyl benzyl phthalate	<180		180	44	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Carbazole	<180		180	50	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Chrysene	**18**	**J**	35	8.0	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Dibenz(a,h)anthracene	<35		35	9.9	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Dibenzofuran	<180		180	43	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Diethyl phthalate	<180	*	180	59	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Dimethyl phthalate	<180		180	44	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Di-n-butyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Di-n-octyl phthalate	<180		180	72	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Fluoranthene	<35		35	14	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Fluorene	<35		35	8.0	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Hexachlorobenzene	<71		71	7.0	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Hexachlorobutadiene	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Hexachlorocyclopentadiene	<710		710	160	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Hexachloroethane	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: BS-1(0.5-1.5)-072413
Date Collected: 07/24/13 08:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-1
Matrix: Solid
Percent Solids: 90.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<35		35	12	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Isophorone	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Naphthalene	<35		35	6.8	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Nitrobenzene	<35		35	11	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
N-Nitrosodiphenylamine	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Pentachlorophenol	<710		710	180	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Phenanthrene	**31**	**J**	35	15	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Phenol	<180		180	56	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1
Pyrene	<35		35	13	ug/Kg	☼	07/30/13 07:34	08/01/13 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*35 - 137*	*07/30/13 07:34*	*08/01/13 18:41*	*1*
2-Fluorobiphenyl	*73*		*30 - 119*	*07/30/13 07:34*	*08/01/13 18:41*	*1*
2-Fluorophenol	*69*		*30 - 110*	*07/30/13 07:34*	*08/01/13 18:41*	*1*
Nitrobenzene-d5	*74*		*30 - 115*	*07/30/13 07:34*	*08/01/13 18:41*	*1*
Phenol-d5	*73*		*31 - 110*	*07/30/13 07:34*	*08/01/13 18:41*	*1*
Terphenyl-d14	*75*		*36 - 134*	*07/30/13 07:34*	*08/01/13 18:41*	*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		07/28/13 15:00	08/06/13 23:55	1
Barium	**0.086**	**J B**	0.50	0.010	mg/L		07/28/13 15:00	08/06/13 23:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/06/13 23:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/06/13 23:55	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/06/13 23:55	1
Cobalt	**0.052**		0.025	0.0050	mg/L		07/28/13 15:00	08/06/13 23:55	1
Copper	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/06/13 23:55	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/06/13 23:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/06/13 23:55	1
Manganese	**2.2**		0.025	0.010	mg/L		07/28/13 15:00	08/06/13 23:55	1
Nickel	**0.050**		0.025	0.010	mg/L		07/28/13 15:00	08/06/13 23:55	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/06/13 23:55	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/06/13 23:55	1
Zinc	**0.052**	**J B**	0.10	0.020	mg/L		07/28/13 15:00	08/06/13 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 18:29	1
Barium	**0.46**	**J**	0.50	0.010	mg/L		07/26/13 12:00	08/02/13 18:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 18:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 18:29	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 18:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 18:29	1
Copper	<0.025		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 18:29	1
Iron	**0.24**		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 18:29	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 18:29	1
Manganese	<0.025		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 18:29	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 18:29	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 18:29	1

Client Sample ID: BS-1(0.5-1.5)-072413
Date Collected: 07/24/13 08:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-1
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	0.0050	mg/L		07/26/13 12:00	08/02/13 18:29	1
Zinc	**0.35**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 18:29	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6000**	**B**	11	0.97	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Antimony	<1.1		1.1	0.42	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Arsenic	**11**		0.53	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Barium	**18**		0.53	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Beryllium	**0.42**		0.21	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Cadmium	**0.82**		0.11	0.013	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Calcium	**69000**	**B**	110	29	mg/Kg	☼	07/25/13 12:30	08/06/13 14:07	10
Chromium	**11**		0.53	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Cobalt	**8.3**		0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Copper	**28**		0.53	0.047	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Iron	**16000**	**B**	11	4.3	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Lead	**12**	**B**	0.26	0.079	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Magnesium	**32000**	**B**	5.3	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Manganese	**340**	**B**	0.53	0.029	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Nickel	**21**	**B**	0.53	0.052	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Potassium	**1900**		26	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Selenium	<0.53		0.53	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Silver	**0.045**	**J**	0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Sodium	**510**		53	7.1	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Thallium	**0.40**	**J**	0.53	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Vanadium	**13**		0.26	0.039	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1
Zinc	**48**	**B**	1.1	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 02:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 10:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:31	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	**16**	**J**	17	8.1	ug/Kg	☼	07/25/13 17:00	07/26/13 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.93**		0.200	0.200	SU			08/03/13 12:51	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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.

500-59744 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich, IL
Lab Project #:
Sampler: T. Walls
Lab PM: Dwight

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	Parameter: SVOCs	Parameter: TCL metals	Parameter: TCLP 8260 metals	Parameter: PH					Comments
1		BS-1(0.5-1.5)-072413	7-24-13	0815	2	S		X	X	X	X	X					
2		WB-1(0.5-1.5)-072413		0825													
3		WB-2(0.5-1.5)-072413		0840													
4		ST-1(0.5-1.5)-072413		0900													
5		VL-1(0.5-1.5)-072413		0910													
6		VL-2(0.5-1.5)-072413		0925													
7		LA-1(0.5-1.5)-072413		0935													
8		LA-2(0.5-1.5)-072413		0955													
9		LA-3(0.5-1.5)-072413		1015													
10		LA-3(0.5-1.5)-072413Dup	7-24-13	1015	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days 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	Weston	7-24-13	1535	Dale Matter	TA	7-24-13	1535
Dale Matter	TA	7-24-13	1732	Shannon Scott	TA-CHI	7/25/13	0615
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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

680 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.185382989 (Decimal Degrees) Longitude: -88.093644472 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.185382989 Longitude: -88.093644472

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATIONS CC-2, CC-3, AND CC-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-18. SEE FIGURE 3-2 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: 500-60028-1.

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 Transporation

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:

7/5/17
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-18
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	CC-2(0.5-1.5)-072913	CC-3(0.5-1.5)-072913	CC-4(0.5-1.5)-072913	Soil Reference Concentrations[A]
Sample Date	7/29/2013	7/29/2013	7/29/2013	
Location ID	CC-2	CC-3	CC-4	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter				
Laboratory pH	8.48	7.83	7.69	<6.25,.9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Benzo(a)anthracene	23 J	56	55	900 / 1100 / 1800
Benzo(a)pyrene	28 J	77	64	90 / 1300 / 2100
Benzo(b)fluoranthene	42	150	120	900 / 1500 / 2100
Benzo(g,h,i)perylene	30 J	110	65	---
Benzo(k)fluoranthene	17 J	44	31 J	9000
Chrysene	30 J	100	89	88000
Dibenzo(a,h)anthracene	12 J	19 J	18 J	90 / 200 / 420
Fluoranthene	48	120	120	3100000
Indeno(1,2,3-cd)pyrene	27 J	72	46	900 / 900 / 1600
Phenanthrene	18 J	59	76	---
Pyrene	45	120	110	2300000
TCL Metals (mg/kg)				
Aluminum, Total	6300 B	6400 B	7000 B	---
Antimony, Total	0.65 J	0.50 J	0.50 J	5
Arsenic, Total	9.4	7.7	6.9	11.3 / 13
Barium, Total	30	26	31	1500
Beryllium, Total	0.42	0.44	0.44	22
Cadmium, Total	0.25	0.28	0.24	5.2
Calcium, Total	64000 B	69000 B	73000 B	---
Chromium, Total	10	12	13	21
Cobalt, Total	8.8	11	11	20
Copper, Total	22 B	26 B	24 B	2900
Iron, Total	17000	17000	16000	15000 / 15900
Lead, Total	20	19	19	107
Magnesium, Total	30000 B	28000 B	32000 B	325000
Manganese, Total	320	330	370	630
Nickel, Total	21	28	26	100
Potassium, Total	1100	1400	1600	---
Sodium, Total	280	320	220	---
Thallium, Total	0.56	0.63	0.23 J	2.6
Vanadium, Total	13	13	14	550
Zinc, Total	63 B	66 B	59 B	5100
TCLP Metals (mg/l)				
Barium, TCLP	0.67 B	0.58 B	0.51 B	2
Cobalt, TCLP	ND	0.0058 J	ND	1
Copper, TCLP	ND	0.023 J	ND	0.65
Manganese, TCLP	0.74	1.3	1.1	0.15
Mercury, TCLP	0.000 J	0.000 J	0.000 J	0.002
Nickel, TCLP	0.012 J	0.018 J	0.014 J	0.1
SPLP Metals (mg/l)				
Arsenic, SPLP	0.010 J	ND	ND	0.05
Barium, SPLP	0.91 B	0.52 B	0.40 J	2
Chromium, SPLP	0.029	ND	ND	0.1
Cobalt, SPLP	0.0071 J	ND	ND	1
Copper, SPLP	0.059	0.013 J	0.012 J	0.65
Iron, SPLP	26	0.23	ND	5
Lead, SPLP	0.021	ND	ND	0.0075
Manganese, SPLP	0.14	ND	ND	0.15
Nickel, SPLP	0.027	ND	ND	0.1
Zinc, SPLP	0.72	0.39	0.30	5

Summary Table of ISGS Site No. 2664-18
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J- - Estimated concentration biased low.

J+ - Estimated concentration biased high.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-60028-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/13/2013 2:28:21 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: CC-2(0.5-1.5)-072913
Date Collected: 07/29/13 10:10
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-14
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.4		5.4	2.3	ug/Kg	☼		08/07/13 05:15	1
Benzene	<5.4		5.4	0.74	ug/Kg	☼		08/07/13 05:15	1
Bromodichloromethane	<5.4		5.4	0.93	ug/Kg	☼		08/07/13 05:15	1
Bromoform	<5.4		5.4	1.2	ug/Kg	☼		08/07/13 05:15	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	☼		08/07/13 05:15	1
Carbon disulfide	<5.4		5.4	0.81	ug/Kg	☼		08/07/13 05:15	1
Carbon tetrachloride	<5.4		5.4	0.99	ug/Kg	☼		08/07/13 05:15	1
Chlorobenzene	<5.4		5.4	0.55	ug/Kg	☼		08/07/13 05:15	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	☼		08/07/13 05:15	1
Chloroform	<5.4		5.4	0.62	ug/Kg	☼		08/07/13 05:15	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 05:15	1
cis-1,2-Dichloroethene	<5.4		5.4	0.77	ug/Kg	☼		08/07/13 05:15	1
cis-1,3-Dichloropropene	<5.4		5.4	0.71	ug/Kg	☼		08/07/13 05:15	1
Dibromochloromethane	<5.4		5.4	0.94	ug/Kg	☼		08/07/13 05:15	1
1,1-Dichloroethane	<5.4		5.4	0.86	ug/Kg	☼		08/07/13 05:15	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		08/07/13 05:15	1
1,1-Dichloroethene	<5.4		5.4	0.88	ug/Kg	☼		08/07/13 05:15	1
1,2-Dichloropropane	<5.4		5.4	0.82	ug/Kg	☼		08/07/13 05:15	1
1,3-Dichloropropene, Total	<5.4		5.4	0.71	ug/Kg	☼		08/07/13 05:15	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 05:15	1
2-Hexanone	<5.4		5.4	1.6	ug/Kg	☼		08/07/13 05:15	1
Methylene Chloride	<5.4		5.4	1.5	ug/Kg	☼		08/07/13 05:15	1
Methyl Ethyl Ketone	<5.4		5.4	2.0	ug/Kg	☼		08/07/13 05:15	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	☼		08/07/13 05:15	1
Methyl tert-butyl ether	<5.4		5.4	0.90	ug/Kg	☼		08/07/13 05:15	1
Styrene	<5.4		5.4	0.71	ug/Kg	☼		08/07/13 05:15	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 05:15	1
Tetrachloroethene	<5.4		5.4	0.83	ug/Kg	☼		08/07/13 05:15	1
Toluene	<5.4		5.4	0.76	ug/Kg	☼		08/07/13 05:15	1
trans-1,2-Dichloroethene	<5.4		5.4	0.75	ug/Kg	☼		08/07/13 05:15	1
trans-1,3-Dichloropropene	<5.4		5.4	0.97	ug/Kg	☼		08/07/13 05:15	1
1,1,1-Trichloroethane	<5.4		5.4	0.81	ug/Kg	☼		08/07/13 05:15	1
1,1,2-Trichloroethane	<5.4		5.4	0.74	ug/Kg	☼		08/07/13 05:15	1
Trichloroethene	<5.4		5.4	0.90	ug/Kg	☼		08/07/13 05:15	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 05:15	1
Xylenes, Total	<11		11	0.49	ug/Kg	☼		08/07/13 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*		*08/07/13 05:15*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/07/13 05:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*08/07/13 05:15*	*1*
Toluene-d8 (Surr)	*93*		*75 - 122*		*08/07/13 05:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<170		170	39	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
1,2-Dichlorobenzene	<170		170	37	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
1,3-Dichlorobenzene	<170		170	36	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
1,4-Dichlorobenzene	<170		170	36	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2,2'-oxybis[1-chloropropane]	<170		170	38	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-2(0.5-1.5)-072913
Date Collected: 07/29/13 10:10
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-14
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	98	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2,4,6-Trichlorophenol	<340		340	43	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2,4-Dichlorophenol	<340		340	100	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2,4-Dimethylphenol	<340		340	110	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2,4-Dinitrophenol	<690		690	170	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2,4-Dinitrotoluene	<170		170	52	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2,6-Dinitrotoluene	<170		170	41	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2-Chlorophenol	<170		170	49	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2-Methylnaphthalene	<170		170	44	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2-Methylphenol	<170		170	45	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2-Nitroaniline	<170		170	62	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
2-Nitrophenol	<340		340	54	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
3 & 4 Methylphenol	<170		170	65	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
3,3'-Dichlorobenzidine	<170		170	28	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
3-Nitroaniline	<340		340	66	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
4,6-Dinitro-2-methylphenol	<340		340	83	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
4-Bromophenyl phenyl ether	<170		170	38	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
4-Chloro-3-methylphenol	<340		340	160	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
4-Chloroaniline	<690		690	100	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
4-Chlorophenyl phenyl ether	<170		170	54	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
4-Nitroaniline	<340		340	70	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
4-Nitrophenol	<690		690	180	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Acenaphthene	<34		34	10	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Acenaphthylene	<34		34	7.8	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Anthracene	<34		34	8.0	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Benzo[a]anthracene	**23**	**J**	34	7.2	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Benzo[a]pyrene	**28**	**J**	34	6.2	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Benzo[b]fluoranthene	**42**		34	6.6	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Benzo[g,h,i]perylene	**30**	**J**	34	12	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Benzo[k]fluoranthene	**17**	**J**	34	8.1	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Bis(2-chloroethoxy)methane	<170		170	38	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Bis(2-chloroethyl)ether	<170		170	51	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Bis(2-ethylhexyl) phthalate	<170		170	45	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Butyl benzyl phthalate	<170		170	43	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Carbazole	<170		170	48	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Chrysene	**30**	**J**	34	7.7	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Dibenz(a,h)anthracene	**12**	**J**	34	9.5	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Dibenzofuran	<170		170	41	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Diethyl phthalate	<170		170	57	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Dimethyl phthalate	<170		170	43	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Di-n-butyl phthalate	<170		170	43	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Di-n-octyl phthalate	<170		170	69	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Fluoranthene	**48**		34	14	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Fluorene	<34		34	7.8	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Hexachlorobenzene	<69		69	6.7	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Hexachlorobutadiene	<170		170	45	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Hexachlorocyclopentadiene	<690		690	160	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Hexachloroethane	<170		170	36	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-2(0.5-1.5)-072913
Date Collected: 07/29/13 10:10
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-14
Matrix: Solid
Percent Solids: 92.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	27	J	34	12	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Isophorone	<170		170	38	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Naphthalene	<34		34	6.6	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Nitrobenzene	<34		34	11	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
N-Nitrosodi-n-propylamine	<170		170	43	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
N-Nitrosodiphenylamine	<170		170	46	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Pentachlorophenol	<690		690	170	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Phenanthrene	18	J	34	14	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Phenol	<170		170	54	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1
Pyrene	45		34	12	ug/Kg	☼	08/08/13 07:07	08/12/13 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*35 - 137*	*08/08/13 07:07*	*08/12/13 14:53*	*1*
2-Fluorobiphenyl	*65*		*30 - 119*	*08/08/13 07:07*	*08/12/13 14:53*	*1*
2-Fluorophenol	*59*		*30 - 110*	*08/08/13 07:07*	*08/12/13 14:53*	*1*
Nitrobenzene-d5	*55*		*30 - 115*	*08/08/13 07:07*	*08/12/13 14:53*	*1*
Phenol-d5	*62*		*31 - 110*	*08/08/13 07:07*	*08/12/13 14:53*	*1*
Terphenyl-d14	*87*		*36 - 134*	*08/08/13 07:07*	*08/12/13 14:53*	*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		08/07/13 08:45	08/08/13 08:42	1
Barium	0.67	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 08:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 08:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 08:42	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:42	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:42	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:42	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 08:42	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 08:42	1
Manganese	0.74		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:42	1
Nickel	0.012	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:42	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 08:42	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:42	1
Zinc	0.23	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010	J	0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:52	1
Barium	0.91	B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:52	1
Chromium	0.029		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:52	1
Cobalt	0.0071	J	0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:52	1
Copper	0.059		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:52	1
Iron	26		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:52	1
Lead	0.021		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:52	1
Manganese	0.14		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:52	1
Nickel	0.027		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:52	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:52	1

Client Sample ID: CC-2(0.5-1.5)-072913
Date Collected: 07/29/13 10:10
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-14
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:52	1
Zinc	0.72		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6300	B	11	0.97	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Antimony	0.65	J	1.1	0.42	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Arsenic	9.4		0.53	0.10	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Barium	30		0.53	0.056	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Beryllium	0.42		0.21	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Cadmium	0.25		0.11	0.013	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Calcium	64000	B	110	29	mg/Kg	☼	07/31/13 08:28	08/12/13 14:06	10
Chromium	10		0.53	0.061	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Cobalt	8.8		0.26	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Copper	22	B	0.53	0.047	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Iron	17000		11	4.3	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Lead	20		0.26	0.079	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Magnesium	30000	B	5.3	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Manganese	320		0.53	0.029	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Nickel	21		0.53	0.052	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Potassium	1100		26	1.6	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Selenium	0.56		0.53	0.19	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Sodium	280		53	7.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Thallium	0.56		0.53	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Vanadium	13		0.26	0.039	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1
Zinc	63	B	1.1	0.21	mg/Kg	☼	07/31/13 08:28	08/11/13 14:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039	J B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:01	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	19		18	8.2	ug/Kg	☼	08/02/13 14:30	08/05/13 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.48		0.200	0.200	SU			08/10/13 12:16	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-3(0.5-1.5)-072913
Date Collected: 07/29/13 10:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-15
Matrix: Solid
Percent Solids: 91.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	☼		08/07/13 05:38	1
Benzene	<5.5		5.5	0.75	ug/Kg	☼		08/07/13 05:38	1
Bromodichloromethane	<5.5		5.5	0.94	ug/Kg	☼		08/07/13 05:38	1
Bromoform	<5.5		5.5	1.3	ug/Kg	☼		08/07/13 05:38	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	☼		08/07/13 05:38	1
Carbon disulfide	<5.5		5.5	0.82	ug/Kg	☼		08/07/13 05:38	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	☼		08/07/13 05:38	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	☼		08/07/13 05:38	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	☼		08/07/13 05:38	1
Chloroform	<5.5		5.5	0.63	ug/Kg	☼		08/07/13 05:38	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	☼		08/07/13 05:38	1
cis-1,2-Dichloroethene	<5.5		5.5	0.77	ug/Kg	☼		08/07/13 05:38	1
cis-1,3-Dichloropropene	<5.5		5.5	0.72	ug/Kg	☼		08/07/13 05:38	1
Dibromochloromethane	<5.5		5.5	0.95	ug/Kg	☼		08/07/13 05:38	1
1,1-Dichloroethane	<5.5		5.5	0.87	ug/Kg	☼		08/07/13 05:38	1
1,2-Dichloroethane	<5.5		5.5	0.81	ug/Kg	☼		08/07/13 05:38	1
1,1-Dichloroethene	<5.5		5.5	0.89	ug/Kg	☼		08/07/13 05:38	1
1,2-Dichloropropane	<5.5		5.5	0.83	ug/Kg	☼		08/07/13 05:38	1
1,3-Dichloropropene, Total	<5.5		5.5	0.72	ug/Kg	☼		08/07/13 05:38	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	☼		08/07/13 05:38	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	☼		08/07/13 05:38	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	☼		08/07/13 05:38	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		08/07/13 05:38	1
methyl isobutyl ketone	<5.5		5.5	1.4	ug/Kg	☼		08/07/13 05:38	1
Methyl tert-butyl ether	<5.5		5.5	0.91	ug/Kg	☼		08/07/13 05:38	1
Styrene	<5.5		5.5	0.72	ug/Kg	☼		08/07/13 05:38	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	☼		08/07/13 05:38	1
Tetrachloroethene	<5.5		5.5	0.84	ug/Kg	☼		08/07/13 05:38	1
Toluene	<5.5		5.5	0.77	ug/Kg	☼		08/07/13 05:38	1
trans-1,2-Dichloroethene	<5.5		5.5	0.75	ug/Kg	☼		08/07/13 05:38	1
trans-1,3-Dichloropropene	<5.5		5.5	0.98	ug/Kg	☼		08/07/13 05:38	1
1,1,1-Trichloroethane	<5.5		5.5	0.82	ug/Kg	☼		08/07/13 05:38	1
1,1,2-Trichloroethane	<5.5		5.5	0.75	ug/Kg	☼		08/07/13 05:38	1
Trichloroethene	<5.5		5.5	0.90	ug/Kg	☼		08/07/13 05:38	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	☼		08/07/13 05:38	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		08/07/13 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 122*		*08/07/13 05:38*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/07/13 05:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*08/07/13 05:38*	*1*
Toluene-d8 (Surr)	*97*		*75 - 122*		*08/07/13 05:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
1,2-Dichlorobenzene	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
1,3-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
1,4-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2,2'-oxybis[1-chloropropane]	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-3(0.5-1.5)-072913
Date Collected: 07/29/13 10:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-15
Matrix: Solid
Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	100	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2,4,6-Trichlorophenol	<350		350	44	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2,4-Dichlorophenol	<350		350	110	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2,4-Dimethylphenol	<350		350	110	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2,4-Dinitrophenol	<710		710	180	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2,4-Dinitrotoluene	<180		180	54	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2,6-Dinitrotoluene	<180		180	42	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2-Chlorophenol	<180		180	50	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2-Methylnaphthalene	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2-Methylphenol	<180		180	47	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2-Nitroaniline	<180		180	64	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
2-Nitrophenol	<350		350	55	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
3 & 4 Methylphenol	<180		180	67	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
3,3'-Dichlorobenzidine	<180		180	29	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
3-Nitroaniline	<350		350	68	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
4,6-Dinitro-2-methylphenol	<350		350	86	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
4-Bromophenyl phenyl ether	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
4-Chloro-3-methylphenol	<350		350	170	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
4-Chloroaniline	<710		710	110	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
4-Chlorophenyl phenyl ether	<180		180	56	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
4-Nitroaniline	<350		350	72	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
4-Nitrophenol	<710		710	190	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Acenaphthene	<35		35	11	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Acenaphthylene	<35		35	8.1	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Anthracene	<35		35	8.3	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Benzo[a]anthracene	**56**		35	7.4	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Benzo[a]pyrene	**77**		35	6.4	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Benzo[b]fluoranthene	**150**		35	6.9	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Benzo[g,h,i]perylene	**110**		35	12	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Benzo[k]fluoranthene	**44**		35	8.4	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Bis(2-chloroethoxy)methane	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Bis(2-ethylhexyl) phthalate	<180		180	47	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Butyl benzyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Carbazole	<180		180	50	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Chrysene	**100**		35	8.0	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Dibenz(a,h)anthracene	**19**	**J**	35	9.9	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Dibenzofuran	<180		180	42	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Diethyl phthalate	<180		180	59	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Dimethyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Di-n-butyl phthalate	<180		180	45	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Di-n-octyl phthalate	<180		180	72	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Fluoranthene	**120**		35	14	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Fluorene	<35		35	8.0	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Hexachlorobenzene	<71		71	6.9	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Hexachlorobutadiene	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Hexachlorocyclopentadiene	<710		710	160	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Hexachloroethane	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-3(0.5-1.5)-072913
Date Collected: 07/29/13 10:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-15
Matrix: Solid
Percent Solids: 91.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	72		35	12	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Isophorone	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Naphthalene	<35		35	6.8	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Nitrobenzene	<35		35	11	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
N-Nitrosodiphenylamine	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Pentachlorophenol	<710		710	180	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Phenanthrene	59		35	15	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Phenol	<180		180	56	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1
Pyrene	120		35	13	ug/Kg	☼	08/08/13 07:07	08/13/13 08:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*35 - 137*	*08/08/13 07:07*	*08/13/13 08:13*	*1*
2-Fluorobiphenyl	*61*		*30 - 119*	*08/08/13 07:07*	*08/13/13 08:13*	*1*
2-Fluorophenol	*61*		*30 - 110*	*08/08/13 07:07*	*08/13/13 08:13*	*1*
Nitrobenzene-d5	*55*		*30 - 115*	*08/08/13 07:07*	*08/13/13 08:13*	*1*
Phenol-d5	*67*		*31 - 110*	*08/08/13 07:07*	*08/13/13 08:13*	*1*
Terphenyl-d14	*68*		*36 - 134*	*08/08/13 07:07*	*08/13/13 08:13*	*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		08/07/13 08:45	08/08/13 08:49	1
Barium	0.58	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 08:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 08:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 08:49	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:49	1
Cobalt	0.0058	J	0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:49	1
Copper	0.023	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:49	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 08:49	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 08:49	1
Manganese	1.3		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:49	1
Nickel	0.018	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:49	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 08:49	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:49	1
Zinc	0.30	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:56	1
Barium	0.52	B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:56	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:56	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:56	1
Copper	0.013	J	0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:56	1
Iron	0.23		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:56	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:56	1
Manganese	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:56	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:56	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:56	1

Client Sample ID: CC-3(0.5-1.5)-072913
Date Collected: 07/29/13 10:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-15
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:56	1
Zinc	0.39		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:56	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6400	B	11	0.98	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Antimony	0.50	J	1.1	0.43	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Arsenic	7.7		0.53	0.11	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Barium	26		0.53	0.057	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Beryllium	0.44		0.21	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Cadmium	0.28		0.11	0.013	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Calcium	69000	B	110	29	mg/Kg	☼	07/31/13 08:28	08/12/13 14:10	10
Chromium	12		0.53	0.062	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Cobalt	11		0.27	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Copper	26	B	0.53	0.047	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Iron	17000		11	4.4	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Lead	19		0.27	0.079	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Magnesium	28000	B	5.3	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Manganese	330		0.53	0.029	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Nickel	28		0.53	0.052	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Potassium	1400		27	1.6	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Selenium	0.57		0.53	0.19	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Sodium	320		53	7.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Thallium	0.63		0.53	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Vanadium	13		0.27	0.039	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1
Zinc	66	B	1.1	0.21	mg/Kg	☼	07/31/13 08:28	08/11/13 14:34	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:07	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		17	7.9	ug/Kg	☼	08/02/13 14:30	08/05/13 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.83		0.200	0.200	SU			08/10/13 12:19	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-4(0.5-1.5)-072913
Date Collected: 07/29/13 10:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-16
Matrix: Solid
Percent Solids: 92.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.4		5.4	2.3	ug/Kg	☼		08/07/13 06:01	1
Benzene	<5.4		5.4	0.74	ug/Kg	☼		08/07/13 06:01	1
Bromodichloromethane	<5.4		5.4	0.94	ug/Kg	☼		08/07/13 06:01	1
Bromoform	<5.4		5.4	1.2	ug/Kg	☼		08/07/13 06:01	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	☼		08/07/13 06:01	1
Carbon disulfide	<5.4		5.4	0.81	ug/Kg	☼		08/07/13 06:01	1
Carbon tetrachloride	<5.4		5.4	0.99	ug/Kg	☼		08/07/13 06:01	1
Chlorobenzene	<5.4		5.4	0.55	ug/Kg	☼		08/07/13 06:01	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	☼		08/07/13 06:01	1
Chloroform	<5.4		5.4	0.62	ug/Kg	☼		08/07/13 06:01	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 06:01	1
cis-1,2-Dichloroethene	<5.4		5.4	0.77	ug/Kg	☼		08/07/13 06:01	1
cis-1,3-Dichloropropene	<5.4		5.4	0.71	ug/Kg	☼		08/07/13 06:01	1
Dibromochloromethane	<5.4		5.4	0.94	ug/Kg	☼		08/07/13 06:01	1
1,1-Dichloroethane	<5.4		5.4	0.86	ug/Kg	☼		08/07/13 06:01	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		08/07/13 06:01	1
1,1-Dichloroethene	<5.4		5.4	0.88	ug/Kg	☼		08/07/13 06:01	1
1,2-Dichloropropane	<5.4		5.4	0.82	ug/Kg	☼		08/07/13 06:01	1
1,3-Dichloropropene, Total	<5.4		5.4	0.71	ug/Kg	☼		08/07/13 06:01	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 06:01	1
2-Hexanone	<5.4		5.4	1.6	ug/Kg	☼		08/07/13 06:01	1
Methylene Chloride	<5.4		5.4	1.5	ug/Kg	☼		08/07/13 06:01	1
Methyl Ethyl Ketone	<5.4		5.4	2.0	ug/Kg	☼		08/07/13 06:01	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	☼		08/07/13 06:01	1
Methyl tert-butyl ether	<5.4		5.4	0.90	ug/Kg	☼		08/07/13 06:01	1
Styrene	<5.4		5.4	0.71	ug/Kg	☼		08/07/13 06:01	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 06:01	1
Tetrachloroethene	<5.4		5.4	0.83	ug/Kg	☼		08/07/13 06:01	1
Toluene	<5.4		5.4	0.76	ug/Kg	☼		08/07/13 06:01	1
trans-1,2-Dichloroethene	<5.4		5.4	0.75	ug/Kg	☼		08/07/13 06:01	1
trans-1,3-Dichloropropene	<5.4		5.4	0.97	ug/Kg	☼		08/07/13 06:01	1
1,1,1-Trichloroethane	<5.4		5.4	0.81	ug/Kg	☼		08/07/13 06:01	1
1,1,2-Trichloroethane	<5.4		5.4	0.74	ug/Kg	☼		08/07/13 06:01	1
Trichloroethene	<5.4		5.4	0.90	ug/Kg	☼		08/07/13 06:01	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	☼		08/07/13 06:01	1
Xylenes, Total	<11		11	0.49	ug/Kg	☼		08/07/13 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*		*08/07/13 06:01*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*08/07/13 06:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/07/13 06:01*	*1*
Toluene-d8 (Surr)	*96*		*75 - 122*		*08/07/13 06:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
1,2-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
1,3-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
1,4-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2,2'-oxybis[1-chloropropane]	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-4(0.5-1.5)-072913
Date Collected: 07/29/13 10:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-16
Matrix: Solid
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	100	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2,4,6-Trichlorophenol	<350		350	44	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2,4-Dichlorophenol	<350		350	110	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2,4-Dimethylphenol	<350		350	110	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2,4-Dinitrophenol	<700		700	180	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2,4-Dinitrotoluene	<180		180	54	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2,6-Dinitrotoluene	<180		180	42	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2-Chlorophenol	<180		180	50	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2-Methylnaphthalene	<180		180	45	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2-Methylphenol	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2-Nitroaniline	<180		180	63	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
2-Nitrophenol	<350		350	55	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
3 & 4 Methylphenol	<180		180	66	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
3,3'-Dichlorobenzidine	<180		180	29	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
3-Nitroaniline	<350		350	67	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
4,6-Dinitro-2-methylphenol	<350		350	85	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
4-Bromophenyl phenyl ether	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
4-Chloro-3-methylphenol	<350		350	170	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
4-Chloroaniline	<700		700	110	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
4-Chlorophenyl phenyl ether	<180		180	55	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
4-Nitroaniline	<350		350	72	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
4-Nitrophenol	<700		700	190	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Acenaphthene	<35		35	10	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Acenaphthylene	<35		35	8.0	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Anthracene	<35		35	8.2	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Benzo[a]anthracene	**55**		35	7.3	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Benzo[a]pyrene	**64**		35	6.4	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Benzo[b]fluoranthene	**120**		35	6.8	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Benzo[g,h,i]perylene	**65**		35	12	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Benzo[k]fluoranthene	**31**	**J**	35	8.3	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Bis(2-chloroethoxy)methane	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Bis(2-ethylhexyl) phthalate	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Butyl benzyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Carbazole	<180		180	49	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Chrysene	**89**		35	7.9	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Dibenz(a,h)anthracene	**18**	**J**	35	9.8	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Dibenzofuran	<180		180	42	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Diethyl phthalate	<180		180	58	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Dimethyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Di-n-butyl phthalate	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Di-n-octyl phthalate	<180		180	71	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Fluoranthene	**120**		35	14	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Fluorene	<35		35	7.9	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Hexachlorobenzene	<70		70	6.9	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Hexachlorobutadiene	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Hexachlorocyclopentadiene	<700		700	160	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Hexachloroethane	<180		180	37	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-4(0.5-1.5)-072913
Date Collected: 07/29/13 10:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-16
Matrix: Solid
Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	46		35	12	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Isophorone	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Naphthalene	<35		35	6.7	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Nitrobenzene	<35		35	11	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
N-Nitrosodiphenylamine	<180		180	47	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Pentachlorophenol	<700		700	180	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Phenanthrene	76		35	15	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Phenol	<180		180	55	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1
Pyrene	110		35	13	ug/Kg	☼	08/08/13 07:07	08/12/13 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*35 - 137*	*08/08/13 07:07*	*08/12/13 15:35*	*1*
2-Fluorobiphenyl	*85*		*30 - 119*	*08/08/13 07:07*	*08/12/13 15:35*	*1*
2-Fluorophenol	*71*		*30 - 110*	*08/08/13 07:07*	*08/12/13 15:35*	*1*
Nitrobenzene-d5	*68*		*30 - 115*	*08/08/13 07:07*	*08/12/13 15:35*	*1*
Phenol-d5	*77*		*31 - 110*	*08/08/13 07:07*	*08/12/13 15:35*	*1*
Terphenyl-d14	*99*		*36 - 134*	*08/08/13 07:07*	*08/12/13 15:35*	*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		08/07/13 08:45	08/08/13 08:55	1
Barium	0.51	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 08:55	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 08:55	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 08:55	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:55	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:55	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:55	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 08:55	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 08:55	1
Manganese	1.1		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:55	1
Nickel	0.014	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:55	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 08:55	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:55	1
Zinc	0.31	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 12:00	1
Barium	0.40	J B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 12:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 12:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 12:00	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 12:00	1
Copper	0.012	J	0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:00	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 12:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 12:00	1
Manganese	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:00	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 12:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 12:00	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: CC-4(0.5-1.5)-072913
Date Collected: 07/29/13 10:40
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-16
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	0.0050	mg/L		08/07/13 13:30	08/11/13 12:00	1
Zinc	0.30		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 12:00	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7000	B	11	0.99	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Antimony	0.50	J	1.1	0.43	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Arsenic	6.9		0.54	0.11	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Barium	31		0.54	0.058	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Beryllium	0.44		0.22	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Cadmium	0.24		0.11	0.014	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Calcium	73000	B	110	29	mg/Kg	☼	07/31/13 08:28	08/12/13 14:14	10
Chromium	13		0.54	0.063	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Cobalt	11		0.27	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Copper	24	B	0.54	0.048	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Iron	16000		11	4.4	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Lead	19		0.27	0.080	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Magnesium	32000	B	5.4	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Manganese	370		0.54	0.029	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Nickel	26		0.54	0.053	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Potassium	1600		27	1.6	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Selenium	0.34	J	0.54	0.19	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Sodium	220		54	7.2	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Thallium	0.23	J	0.54	0.23	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Vanadium	14		0.27	0.040	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1
Zinc	59	B	1.1	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 14:39	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 12:09	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	7.8	ug/Kg	☼	08/02/13 14:30	08/05/13 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.69		0.200	0.200	SU			08/10/13 12:22	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

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
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-60028
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler: 3.6, 3.9

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich / IL
Lab Project #:
Sampler: T. Walls
Lab PM: D. Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH					Comments
11		SM2-2(0.5-1.5)-072913	7-29-13	0935	2	S	X	X	X	X	X					
12		SM2-3(0.5-1.5)-072913	↓	0945	↓	↓	↓	↓	↓	↓	↓					
13		CC-1(0.5-1.5)-072913	↓	0955	↓	↓	↓	↓	↓	↓	↓					
14		CC-2(0.5-1.5)-072913	↓	1010	↓	↓	↓	↓	↓	↓	↓					
15		CC-3(0.5-1.5)-072913	↓	1025	↓	↓	↓	↓	↓	↓	↓					
16		CC-4(0.5-1.5)-072913	↓	1040	↓	↓	↓	↓	↓	↓	↓					
17		TF-1(0.5-1.5)-072913	↓	1050	↓	↓	↓	↓	↓	↓	↓					
18		TF-2(0.5-1.5)-072913	↓	1105	↓	↓	↓	↓	↓	↓	↓					
19		TF-3(0.5-1.5)-072913	↓	1115	↓	↓	↓	↓	↓	↓	↓					
20		TF-3(0.5-1.5)-072913 Dup	7-29-13	1115	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
T. Walls	Weston	7-29-13	1340	[signature]	TA	7-29-13	1340
[signature]	TAL	7-29-13	1530	[signature]	TA-CHI	7/29/13	1530

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

767 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.184966854 (Decimal Degrees) Longitude: -88.093203959 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.184966854 Longitude: -88.093203959

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION WB-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-19. SEE FIGURE 3-2 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: 500-59744-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	WB-2(0.5-1.5)-072413	**Soil Reference Concentrations[A]**
Sample Date	7/24/2013	
Location ID	WB-2	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.39	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Acenaphthene	83	570000
Acenaphthylene	15 J	---
Anthracene	220	1.2E+07
Benzo(a)anthracene	810	900 / 1100 / 1800
Benzo(a)pyrene	850	90 / 1300 / 2100
Benzo(b)fluoranthene	1200	900 / 1500 / 2100
Benzo(g,h,i)perylene	570	---
Benzo(k)fluoranthene	510	9000
Carbazole	93 J	600
Chrysene	910	88000
Dibenzo(a,h)anthracene	190	90 / 200 / 420
Fluoranthene	3300	3100000
Fluorene	110	560000
Indeno(1,2,3-cd)pyrene	530	900 / 900 / 1600
Phenanthrene	1900	---
Pyrene	1800	2300000
TCL Metals (mg/kg)		
Aluminum, Total	6700 B	---
Arsenic, Total	7.5	11.3 / 13
Barium, Total	34	1500
Beryllium, Total	0.43	22
Cadmium, Total	0.79	5.2
Calcium, Total	80000 B	---
Chromium, Total	12	21
Cobalt, Total	7.2	20
Copper, Total	24	2900
Iron, Total	15000 B	15000 / 15900
Lead, Total	14 B	107
Magnesium, Total	38000 B	325000
Manganese, Total	420 B	630
Mercury, Total	0.027	0.89
Nickel, Total	19 B	100
Potassium, Total	1700	---
Sodium, Total	960	---
Thallium, Total	0.37 J	2.6
Vanadium, Total	16	550
Zinc, Total	49 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.84 B	2
Iron, TCLP	0.32	5
Manganese, TCLP	2.1	0.15
Nickel, TCLP	0.017 J	0.1
Zinc, TCLP	0.39	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.025 J	0.05
Barium, SPLP	0.55	2
Chromium, SPLP	0.068	0.1
Cobalt, SPLP	0.021 J	1
Copper, SPLP	0.083	0.65
Iron, SPLP	58	5
Lead, SPLP	0.042	0.0075
Manganese, SPLP	0.31	0.15
Mercury, SPLP	0.000088 J	0.002
Nickel, SPLP	0.066	0.1
Zinc, SPLP	0.48	5

Summary Table of ISGS Site No. 2664-19
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59744-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 4:52:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: WB-2(0.5-1.5)-072413
Date Collected: 07/24/13 08:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-3
Matrix: Solid
Percent Solids: 87.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	☼		08/01/13 02:22	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		08/01/13 02:22	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		08/01/13 02:22	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/01/13 02:22	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/01/13 02:22	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		08/01/13 02:22	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 02:22	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		08/01/13 02:22	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		08/01/13 02:22	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		08/01/13 02:22	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 02:22	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		08/01/13 02:22	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 02:22	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 02:22	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		08/01/13 02:22	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/01/13 02:22	1
1,1-Dichloroethene	<5.7		5.7	0.92	ug/Kg	☼		08/01/13 02:22	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		08/01/13 02:22	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 02:22	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 02:22	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		08/01/13 02:22	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 02:22	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		08/01/13 02:22	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 02:22	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		08/01/13 02:22	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 02:22	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 02:22	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		08/01/13 02:22	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		08/01/13 02:22	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		08/01/13 02:22	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 02:22	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/01/13 02:22	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		08/01/13 02:22	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	☼		08/01/13 02:22	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 02:22	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		08/01/13 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*		*08/01/13 02:22*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*08/01/13 02:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*08/01/13 02:22*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*08/01/13 02:22*	*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	41	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: WB-2(0.5-1.5)-072413
Date Collected: 07/24/13 08:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-3
Matrix: Solid
Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2,4-Dinitrophenol	<730		730	190	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2,6-Dinitrotoluene	<180		180	43	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2-Methylnaphthalene	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2-Methylphenol	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2-Nitroaniline	<180		180	66	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
3-Nitroaniline	<360		360	70	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
4,6-Dinitro-2-methylphenol	<360		360	88	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
4-Chloro-3-methylphenol	<360		360	170	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
4-Chloroaniline	<730		730	110	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
4-Chlorophenyl phenyl ether	<180		180	57	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
4-Nitroaniline	<360		360	75	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
4-Nitrophenol	<730		730	200	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Acenaphthene	**83**		36	11	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Acenaphthylene	**15**	**J**	36	8.4	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Anthracene	**220**		36	8.6	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Benzo[a]anthracene	**810**		36	7.6	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Benzo[a]pyrene	**850**		36	6.6	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Benzo[b]fluoranthene	**1200**		36	7.1	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Benzo[g,h,i]perylene	**570**		36	12	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Benzo[k]fluoranthene	**510**		36	8.7	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Bis(2-ethylhexyl) phthalate	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Butyl benzyl phthalate	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Carbazole	**93**	**J**	180	51	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Chrysene	**910**		36	8.2	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Dibenz(a,h)anthracene	**190**		36	10	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Dibenzofuran	<180		180	44	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Diethyl phthalate	<180	*	180	61	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Fluorene	**110**		36	8.3	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Hexachlorobenzene	<73		73	7.2	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Hexachlorocyclopentadiene	<730		730	170	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Hexachloroethane	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Indeno[1,2,3-cd]pyrene	**530**		36	12	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: WB-2(0.5-1.5)-072413
Date Collected: 07/24/13 08:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-3
Matrix: Solid
Percent Solids: 87.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<180		180	41	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Naphthalene	<36		36	7.0	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Nitrobenzene	<36		36	11	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
N-Nitrosodi-n-propylamine	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
N-Nitrosodiphenylamine	<180		180	49	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Pentachlorophenol	<730		730	190	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Phenol	<180		180	58	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1
Pyrene	**1800**		36	13	ug/Kg	☼	07/30/13 07:34	08/01/13 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*65*		*35 - 137*	*07/30/13 07:34*	*08/01/13 19:29*	*1*
2-Fluorobiphenyl	*58*		*30 - 119*	*07/30/13 07:34*	*08/01/13 19:29*	*1*
2-Fluorophenol	*52*		*30 - 110*	*07/30/13 07:34*	*08/01/13 19:29*	*1*
Nitrobenzene-d5	*56*		*30 - 115*	*07/30/13 07:34*	*08/01/13 19:29*	*1*
Phenol-d5	*55*		*31 - 110*	*07/30/13 07:34*	*08/01/13 19:29*	*1*
Terphenyl-d14	*63*		*36 - 134*	*07/30/13 07:34*	*08/01/13 19:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**3300**		360	150	ug/Kg	☼	07/30/13 07:34	08/05/13 14:58	10
Phenanthrene	**1900**		360	150	ug/Kg	☼	07/30/13 07:34	08/05/13 14:58	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 00:26	1
Barium	**0.84**	**B**	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 00:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 00:26	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 00:26	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:26	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 00:26	1
Copper	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:26	1
Iron	**0.32**		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 00:26	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 00:26	1
Manganese	**2.1**		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:26	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:26	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 00:26	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 00:26	1
Zinc	**0.39**		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.025**	**J**	0.050	0.010	mg/L		07/26/13 12:00	08/02/13 19:01	1
Barium	**0.55**		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 19:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 19:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 19:01	1
Chromium	**0.068**		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:01	1
Cobalt	**0.021**	**J**	0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 19:01	1
Copper	**0.083**		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:01	1
Iron	**58**		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 19:01	1
Lead	**0.042**		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 19:01	1

Client Sample ID: WB-2(0.5-1.5)-072413
Date Collected: 07/24/13 08:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.31		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:01	1
Nickel	0.066		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:01	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 19:01	1
Silver	<0.025		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 19:01	1
Zinc	0.48		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 19:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6700	B	11	1.0	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Arsenic	7.5		0.56	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Barium	34		0.56	0.060	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Beryllium	0.43		0.22	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Cadmium	0.79		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Calcium	80000	B	110	30	mg/Kg	☼	07/25/13 12:30	08/06/13 03:19	10
Chromium	12		0.56	0.065	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Cobalt	7.2		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Copper	24		0.56	0.050	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Iron	15000	B	11	4.6	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Lead	14	B	0.28	0.083	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Magnesium	38000	B	5.6	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Manganese	420	B	0.56	0.030	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Nickel	19	B	0.56	0.055	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Potassium	1700		28	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Sodium	960		56	7.5	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Thallium	0.37	J	0.56	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Vanadium	16		0.28	0.041	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1
Zinc	49	B	1.1	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 03:13	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.088	J	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:42	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	27		18	8.3	ug/Kg	☼	07/25/13 17:00	07/26/13 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.39		0.200	0.200	SU			08/03/13 12:57	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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.

500-59744 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich, IL
Lab Project #:
Sampler: T. Walls
Lab PM: Dwight

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	Parameter: SVOCs	Parameter: TCL metals	Parameter: TCLP 8260 metals	Parameter: PH					Comments
1		BS-1(0.5-1.5)-072413	7-24-13	0815	2	S		X	X	X	X	X					
2		WB-1(0.5-1.5)-072413		0825													
3		WB-2(0.5-1.5)-072413		0840													
4		ST-1(0.5-1.5)-072413		0900													
5		VL-1(0.5-1.5)-072413		0910													
6		VL-2(0.5-1.5)-072413		0925													
7		LA-1(0.5-1.5)-072413		0935													
8		LA-2(0.5-1.5)-072413		0955													
9		LA-3(0.5-1.5)-072413		1015													
10		LA-3(0.5-1.5)-072413Dup	7-24-13	1015	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days 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	Weston	7-24-13	1535	Dale Matter	TA	7-24-13	1535
Dale Matter	TA	7-24-13	1732	Shannon Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: S. Babusankumar
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT 004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LA-4(0.5-1.5)-072413	7-24-13	1040	2	S	X	X	X	X	X					
12		MB-1(0.5-1.5)-072413	↓	1055	↓		↓	↓	↓	↓	↓					
13		MB-2(0.5-1.5)-072413	↓	1105	↓		↓	↓	↓	↓	↓					
14		MB-3(0.5-1.5)-072413	↓	1125	↓		↓	↓	↓	↓	↓					
15		HA-1(0.5-1.5)-072413	↓	1140	↓		↓	↓	↓	↓	↓					
16		SM5-1(0.5-1.5)-072413	↓	1215	↓		↓	↓	↓	↓	↓					
17		SM5-2(0.5-1.5)-072413	↓	1230	↓		↓	↓	↓	↓	↓					
18		SM5-3(0.5-1.5)-072413	↓	1250	↓		↓	↓	↓	↓	↓					
19		SM6-1(0.5-1.5)-072413	↓	1310	↓		↓	↓	↓	↓	↓					
20		SM6-1(0.5-1.5)-072413Dup	7-24-13	1310	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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
T. Walls	Weston	7-24-13	1535	Dale Mattea	TA	7-24-13	1535
Dale Mattea	TA	7-24-13	1732	Shawn Scott	TA-CHI	7/25/13	0615

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

684 to 690 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.184871085 (Decimal Degrees) Longitude: -88.091602445 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.184871085 Longitude: -88.091602445

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 SM2-2 AND SM2-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-21. SEE FIGURE 3-2 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: 500-60028-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-21
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	SM2-2(0.5-1.5)-072913	SM2-3(0.5-1.5)-072913	Soil Reference Concentrations[A]
Sample Date	7/29/2013	7/29/2013	
Location ID	SM2-2	SM2-3	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.49	8.46	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	ND	16 J	900 / 1100 / 1800
Benzo(a)pyrene	ND	22 J	90 / 1300 / 2100
Benzo(b)fluoranthene	11 J	46	900 / 1500 / 2100
Benzo(g,h,i)perylene	ND	28 J	---
Benzo(k)fluoranthene	ND	13 J	9000
Chrysene	9.1 J	27 J	88000
Fluoranthene	ND	32 J	3100000
Indeno(1,2,3-cd)pyrene	ND	21 J	900 / 900 / 1600
Pyrene	ND	32 J	2300000
TCL Metals (mg/kg)			
Aluminum, Total	9400 B	5600 B	---
Antimony, Total	0.47 J	ND	5
Arsenic, Total	7.4	5.8	11.3 / 13
Barium, Total	55	27	1500
Beryllium, Total	0.59	0.37	22
Cadmium, Total	0.25	0.27	5.2
Calcium, Total	33000 B	68000 B	---
Chromium, Total	14	9.5	21
Cobalt, Total	13	7.6	20
Copper, Total	24 B	18 B	2900
Iron, Total	18000	12000	15000 / 15900
Lead, Total	24	44	107
Magnesium, Total	19000 B	30000 B	325000
Manganese, Total	380	320	630
Mercury, Total	0.026	0.026	0.89
Nickel, Total	28	18	100
Potassium, Total	1400	1000	---
Sodium, Total	1500	850	---
Thallium, Total	0.46 J	ND	2.6
Vanadium, Total	18	12	550
Zinc, Total	64 B	58 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.78 B	0.7 B	2
Cobalt, TCLP	0.02 J	0.015 J	1
Copper, TCLP	0.02 J	0.012 J	0.65
Iron, TCLP	0.26	ND	5
Manganese, TCLP	4.6	3.1	0.15
Mercury, TCLP	J	J	0.002
Nickel, TCLP	0.023 J	0.023 J	0.1
SPLP Metals (mg/l)			
Arsenic, SPLP	0.07	ND	0.05
Barium, SPLP	1 B	0.74 B	2
Beryllium, SPLP	0.0072	ND	0.004
Cadmium, SPLP	0.0024 J	ND	0.005
Chromium, SPLP	0.17	0.037	0.1
Cobalt, SPLP	0.083	0.015 J	1
Copper, SPLP	0.26	0.066	0.65
Iron, SPLP	190	36	5
Lead, SPLP	0.18	0.074	0.0075
Manganese, SPLP	1.5	0.38	0.15
Nickel, SPLP	0.23	0.04	0.1
Zinc, SPLP	0.98	0.59	5

Summary Table of ISGS Site No. 2664-21
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-60028-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/13/2013 2:28:21 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: SM2-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-11
Matrix: Solid
Percent Solids: 82.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		08/07/13 04:07	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		08/07/13 04:07	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		08/07/13 04:07	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		08/07/13 04:07	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		08/07/13 04:07	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		08/07/13 04:07	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		08/07/13 04:07	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		08/07/13 04:07	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		08/07/13 04:07	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		08/07/13 04:07	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		08/07/13 04:07	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		08/07/13 04:07	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		08/07/13 04:07	1
Dibromochloromethane	<6.0		6.0	1.1	ug/Kg	☼		08/07/13 04:07	1
1,1-Dichloroethane	<6.0		6.0	0.96	ug/Kg	☼		08/07/13 04:07	1
1,2-Dichloroethane	<6.0		6.0	0.90	ug/Kg	☼		08/07/13 04:07	1
1,1-Dichloroethene	<6.0		6.0	0.98	ug/Kg	☼		08/07/13 04:07	1
1,2-Dichloropropane	<6.0		6.0	0.92	ug/Kg	☼		08/07/13 04:07	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		08/07/13 04:07	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		08/07/13 04:07	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		08/07/13 04:07	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		08/07/13 04:07	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		08/07/13 04:07	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		08/07/13 04:07	1
Methyl tert-butyl ether	<6.0		6.0	1.0	ug/Kg	☼		08/07/13 04:07	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		08/07/13 04:07	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		08/07/13 04:07	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		08/07/13 04:07	1
Toluene	<6.0		6.0	0.85	ug/Kg	☼		08/07/13 04:07	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		08/07/13 04:07	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		08/07/13 04:07	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		08/07/13 04:07	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		08/07/13 04:07	1
Trichloroethene	<6.0		6.0	1.0	ug/Kg	☼		08/07/13 04:07	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		08/07/13 04:07	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		08/07/13 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*08/07/13 04:07*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*08/07/13 04:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*08/07/13 04:07*	*1*
Toluene-d8 (Surr)	*96*		*75 - 122*		*08/07/13 04:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
1,2-Dichlorobenzene	<200		200	42	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
1,3-Dichlorobenzene	<200		200	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
1,4-Dichlorobenzene	<200		200	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2,2'-oxybis[1-chloropropane]	<200		200	43	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: SM2-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-11
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	110	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2,4,6-Trichlorophenol	<390		390	49	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2,4-Dichlorophenol	<390		390	120	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2,4-Dimethylphenol	<390		390	120	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2,4-Dinitrophenol	<780		780	200	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2,4-Dinitrotoluene	<200		200	59	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2,6-Dinitrotoluene	<200		200	46	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2-Chlorophenol	<200		200	55	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2-Methylnaphthalene	<200		200	50	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2-Methylphenol	<200		200	52	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2-Nitroaniline	<200		200	70	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
2-Nitrophenol	<390		390	61	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
3 & 4 Methylphenol	<200		200	73	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
3,3'-Dichlorobenzidine	<200		200	32	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
3-Nitroaniline	<390		390	75	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
4,6-Dinitro-2-methylphenol	<390		390	94	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
4-Bromophenyl phenyl ether	<200		200	43	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
4-Chloro-3-methylphenol	<390		390	190	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
4-Chloroaniline	<780		780	120	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
4-Chlorophenyl phenyl ether	<200		200	61	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
4-Nitroaniline	<390		390	80	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
4-Nitrophenol	<780		780	210	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Acenaphthene	<39		39	12	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Acenaphthylene	<39		39	8.9	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Anthracene	<39		39	9.1	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Benzo[a]anthracene	<39		39	8.1	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Benzo[a]pyrene	<39		39	7.1	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Benzo[b]fluoranthene	**11**	**J**	39	7.5	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Benzo[k]fluoranthene	<39		39	9.3	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Bis(2-chloroethoxy)methane	<200		200	43	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Bis(2-chloroethyl)ether	<200		200	57	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Bis(2-ethylhexyl) phthalate	<200		200	51	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Butyl benzyl phthalate	<200		200	49	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Carbazole	<200		200	55	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Chrysene	**9.1**	**J**	39	8.8	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Dibenz(a,h)anthracene	<39		39	11	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Dibenzofuran	<200		200	47	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Diethyl phthalate	<200		200	65	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Dimethyl phthalate	<200		200	48	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Di-n-butyl phthalate	<200		200	49	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Di-n-octyl phthalate	<200		200	79	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Fluoranthene	<39		39	16	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Fluorene	<39		39	8.8	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Hexachlorobenzene	<78		78	7.6	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Hexachlorobutadiene	<200		200	51	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Hexachlorocyclopentadiene	<780		780	180	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Hexachloroethane	<200		200	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: SM2-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-11
Matrix: Solid
Percent Solids: 82.8

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	<39		39	13	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Isophorone	<200		200	43	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Naphthalene	<39		39	7.5	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Nitrobenzene	<39		39	12	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
N-Nitrosodi-n-propylamine	<200		200	49	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
N-Nitrosodiphenylamine	<200		200	52	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Pentachlorophenol	<780		780	200	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Phenanthrene	<39		39	16	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Phenol	<200		200	61	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1
Pyrene	<39		39	14	ug/Kg	☼	08/08/13 07:07	08/13/13 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*35 - 137*	*08/08/13 07:07*	*08/13/13 07:04*	*1*
2-Fluorobiphenyl	*66*		*30 - 119*	*08/08/13 07:07*	*08/13/13 07:04*	*1*
2-Fluorophenol	*68*		*30 - 110*	*08/08/13 07:07*	*08/13/13 07:04*	*1*
Nitrobenzene-d5	*58*		*30 - 115*	*08/08/13 07:07*	*08/13/13 07:04*	*1*
Phenol-d5	*78*		*31 - 110*	*08/08/13 07:07*	*08/13/13 07:04*	*1*
Terphenyl-d14	*71*		*36 - 134*	*08/08/13 07:07*	*08/13/13 07:04*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 08:24	1
Barium	**0.78**	**B**	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 08:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 08:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 08:24	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:24	1
Cobalt	**0.020**	**J**	0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:24	1
Copper	**0.020**	**J**	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:24	1
Iron	**0.26**		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 08:24	1
Lead	**0.0062**	**J B**	0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 08:24	1
Manganese	**4.6**		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:24	1
Nickel	**0.023**	**J**	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:24	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 08:24	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:24	1
Zinc	**0.24**	**B**	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 08:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.070**		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:31	1
Barium	**1.0**	**B**	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:31	1
Beryllium	**0.0072**		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:31	1
Cadmium	**0.0024**	**J**	0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:31	1
Chromium	**0.17**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:31	1
Cobalt	**0.083**		0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:31	1
Copper	**0.26**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:31	1
Iron	**190**		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:31	1
Lead	**0.18**		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:31	1
Manganese	**1.5**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:31	1
Nickel	**0.23**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:31	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: SM2-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-11
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:31	1
Zinc	0.98		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9400	B	12	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Antimony	0.47	J	1.2	0.47	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Arsenic	7.4		0.59	0.12	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Barium	55		0.59	0.063	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Beryllium	0.59		0.23	0.021	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Cadmium	0.25		0.12	0.015	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Calcium	33000	B	12	3.2	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Chromium	14		0.59	0.068	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Cobalt	13		0.29	0.021	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Copper	24	B	0.59	0.052	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Iron	18000		12	4.8	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Lead	24		0.29	0.087	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Magnesium	19000	B	5.9	1.2	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Manganese	380		0.59	0.032	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Nickel	28		0.59	0.058	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Potassium	1400		29	1.8	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Selenium	0.51	J	0.59	0.21	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Sodium	1500		59	7.9	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Thallium	0.46	J	0.59	0.25	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Vanadium	18		0.29	0.043	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1
Zinc	64	B	1.2	0.24	mg/Kg	☼	07/31/13 08:28	08/11/13 14:06	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 10:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29	B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:55	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		19	9.0	ug/Kg	☼	08/02/13 14:30	08/05/13 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.49		0.200	0.200	SU			08/10/13 12:09	1

Client Sample ID: SM2-3(0.5-1.5)-072913
Date Collected: 07/29/13 09:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-12
Matrix: Solid
Percent Solids: 88.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.6		5.6	2.4	ug/Kg	☼		08/07/13 04:30	1
Benzene	<5.6		5.6	0.77	ug/Kg	☼		08/07/13 04:30	1
Bromodichloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/07/13 04:30	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/07/13 04:30	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/07/13 04:30	1
Carbon disulfide	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 04:30	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 04:30	1
Chlorobenzene	<5.6		5.6	0.57	ug/Kg	☼		08/07/13 04:30	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 04:30	1
Chloroform	<5.6		5.6	0.65	ug/Kg	☼		08/07/13 04:30	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 04:30	1
cis-1,2-Dichloroethene	<5.6		5.6	0.80	ug/Kg	☼		08/07/13 04:30	1
cis-1,3-Dichloropropene	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 04:30	1
Dibromochloromethane	<5.6		5.6	0.98	ug/Kg	☼		08/07/13 04:30	1
1,1-Dichloroethane	<5.6		5.6	0.89	ug/Kg	☼		08/07/13 04:30	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		08/07/13 04:30	1
1,1-Dichloroethene	<5.6		5.6	0.91	ug/Kg	☼		08/07/13 04:30	1
1,2-Dichloropropane	<5.6		5.6	0.86	ug/Kg	☼		08/07/13 04:30	1
1,3-Dichloropropene, Total	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 04:30	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 04:30	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/07/13 04:30	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 04:30	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/07/13 04:30	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 04:30	1
Methyl tert-butyl ether	<5.6		5.6	0.93	ug/Kg	☼		08/07/13 04:30	1
Styrene	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 04:30	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 04:30	1
Tetrachloroethene	<5.6		5.6	0.86	ug/Kg	☼		08/07/13 04:30	1
Toluene	<5.6		5.6	0.79	ug/Kg	☼		08/07/13 04:30	1
trans-1,2-Dichloroethene	<5.6		5.6	0.78	ug/Kg	☼		08/07/13 04:30	1
trans-1,3-Dichloropropene	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 04:30	1
1,1,1-Trichloroethane	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 04:30	1
1,1,2-Trichloroethane	<5.6		5.6	0.77	ug/Kg	☼		08/07/13 04:30	1
Trichloroethene	<5.6		5.6	0.93	ug/Kg	☼		08/07/13 04:30	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 04:30	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		08/07/13 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*		*08/07/13 04:30*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*08/07/13 04:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*08/07/13 04:30*	*1*
Toluene-d8 (Surr)	*96*		*75 - 122*		*08/07/13 04:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: SM2-3(0.5-1.5)-072913
Date Collected: 07/29/13 09:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-12
Matrix: Solid
Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2,6-Dinitrotoluene	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2-Methylnaphthalene	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2-Methylphenol	<180		180	49	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2-Nitroaniline	<180		180	66	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
3,3'-Dichlorobenzidine	<180		180	31	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
3-Nitroaniline	<360		360	71	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
4,6-Dinitro-2-methylphenol	<360		360	89	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
4-Chloro-3-methylphenol	<360		360	180	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
4-Chlorophenyl phenyl ether	<180		180	58	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
4-Nitroaniline	<360		360	75	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Acenaphthene	<36		36	11	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Acenaphthylene	<36		36	8.4	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Anthracene	<36		36	8.6	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Benzo[a]anthracene	**16**	**J**	36	7.7	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Benzo[a]pyrene	**22**	**J**	36	6.7	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Benzo[b]fluoranthene	**46**		36	7.1	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Benzo[g,h,i]perylene	**28**	**J**	36	12	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Benzo[k]fluoranthene	**13**	**J**	36	8.7	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Bis(2-ethylhexyl) phthalate	<180		180	49	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Butyl benzyl phthalate	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Carbazole	<180		180	51	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Chrysene	**27**	**J**	36	8.3	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Dibenz(a,h)anthracene	<36		36	10	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Dibenzofuran	<180		180	44	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Fluoranthene	**32**	**J**	36	15	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Fluorene	<36		36	8.3	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Hexachlorobenzene	<74		74	7.2	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Hexachloroethane	<180		180	39	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: SM2-3(0.5-1.5)-072913
Date Collected: 07/29/13 09:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-12
Matrix: Solid
Percent Solids: 88.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	21	J	36	12	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Isophorone	<180		180	41	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Naphthalene	<36		36	7.1	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Nitrobenzene	<36		36	11	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
N-Nitrosodi-n-propylamine	<180		180	47	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
N-Nitrosodiphenylamine	<180		180	50	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Phenanthrene	<36		36	15	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Phenol	<180		180	58	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1
Pyrene	32	J	36	13	ug/Kg	☼	08/08/13 07:07	08/13/13 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*35 - 137*	*08/08/13 07:07*	*08/13/13 07:27*	*1*
2-Fluorobiphenyl	*59*		*30 - 119*	*08/08/13 07:07*	*08/13/13 07:27*	*1*
2-Fluorophenol	*55*		*30 - 110*	*08/08/13 07:07*	*08/13/13 07:27*	*1*
Nitrobenzene-d5	*52*		*30 - 115*	*08/08/13 07:07*	*08/13/13 07:27*	*1*
Phenol-d5	*61*		*31 - 110*	*08/08/13 07:07*	*08/13/13 07:27*	*1*
Terphenyl-d14	*70*		*36 - 134*	*08/08/13 07:07*	*08/13/13 07:27*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 08:30	1
Barium	0.70	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 08:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 08:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 08:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:30	1
Cobalt	0.015	J	0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:30	1
Copper	0.012	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:30	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 08:30	1
Lead	0.010	B	0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 08:30	1
Manganese	3.1		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:30	1
Nickel	0.023	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 08:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 08:30	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 08:30	1
Zinc	0.26	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 08:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:36	1
Barium	0.74	B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:36	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:36	1
Chromium	0.037		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:36	1
Cobalt	0.015	J	0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:36	1
Copper	0.066		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:36	1
Iron	36		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:36	1
Lead	0.074		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:36	1
Manganese	0.38		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:36	1
Nickel	0.040		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:36	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:36	1

Client Sample ID: SM2-3(0.5-1.5)-072913
Date Collected: 07/29/13 09:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-12
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:36	1
Zinc	**0.59**		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:36	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5600**	**B**	11	1.0	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Arsenic	**5.8**		0.54	0.11	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Barium	**27**		0.54	0.058	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Beryllium	**0.37**		0.22	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Cadmium	**0.27**		0.11	0.014	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Calcium	**68000**	**B**	110	29	mg/Kg	☼	07/31/13 08:28	08/12/13 13:58	10
Chromium	**9.5**		0.54	0.063	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Cobalt	**7.6**		0.27	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Copper	**18**	**B**	0.54	0.048	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Iron	**12000**		11	4.4	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Lead	**44**		0.27	0.081	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Magnesium	**30000**	**B**	5.4	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Manganese	**320**		0.54	0.029	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Nickel	**18**		0.54	0.053	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Potassium	**1000**		27	1.6	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Selenium	**0.35**	**J**	0.54	0.19	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Sodium	**850**		54	7.3	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Vanadium	**12**		0.27	0.040	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1
Zinc	**58**	**B**	1.1	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 14:11	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**	**J**	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**	**J B**	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:57	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**		18	8.4	ug/Kg	☼	08/02/13 14:30	08/05/13 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.46**		0.200	0.200	SU			08/10/13 12:11	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5

Chain of Custody Record

Lab Job #: 500-60028

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.6, 3.9

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste 500	Address:	
Address:	Vernon Hills, IL	Address:	Same
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Weston	Cli	500-60028 COC
Project Name	IDOT-004		
Project Location/State	Lake Zurich, 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	TCL metals	TCLP/SPLP metals	pH					Comments
1		SM3-2(0.5-1.5)-072913	7-29-13	0740	2	S		X	X	X	X	X					
2		AH-1(0.5-1.5)-072913		0750													
3		YP-1(0.5-1.5)-072913		0800													
4		YP-2(0.5-1.5)-072913		0810													
5		LF-1(0.5-1.5)-072913		0825													
6		LF-2(0.5-1.5)-072913		0835													
7		PH-1(0.5-1.5)-072913		0845													
8		pH-2(0.5-1.5)-072913		0900													
9		SM2-1(0.5-1.5)-072913		0915													
10		SM2-1(0.5-1.5)-072913Dup	7-29-13	0915	2	S		X	X	X	X	X					

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
T. Walls	Weston	7-29-13	1340		TAC	7-29-13	1340
	TAC	7-29-13	1530	Steve Scott	TA-CHI	7/29/13	1530

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
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-60028
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler: 3.6, 3.9

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH					Comments
11		SM2-2(0.5-1.5)-072913	7-29-13	0935	2	S	X	X	X	X	X					
12		SM2-3(0.5-1.5)-072913	↓	0945	↓	↓	↓	↓	↓	↓	↓					
13		CC-1(0.5-1.5)-072913	↓	0955	↓	↓	↓	↓	↓	↓	↓					
14		CC-2(0.5-1.5)-072913	↓	1010	↓	↓	↓	↓	↓	↓	↓					
15		CC-3(0.5-1.5)-072913	↓	1025	↓	↓	↓	↓	↓	↓	↓					
16		CC-4(0.5-1.5)-072913	↓	1040	↓	↓	↓	↓	↓	↓	↓					
17		TF-1(0.5-1.5)-072913	↓	1050	↓	↓	↓	↓	↓	↓	↓					
18		TF-2(0.5-1.5)-072913	↓	1105	↓	↓	↓	↓	↓	↓	↓					
19		TF-3(0.5-1.5)-072913	↓	1115	↓	↓	↓	↓	↓	↓	↓					
20		TF-3(0.5-1.5)-072913 Dup	7-29-13	1115	2	S	X	X	X	X	X					

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

Sample Disposal
[ ] Return to Client [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	Weston	7-29-13	1340	[signature]	TA	7-29-13	1340
[signature]	TAL	7-29-13	1530	[signature]	TA-CHI	7/29/13	1530

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
600 to 700 block of S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.184328567 (Decimal Degrees) Longitude: -88.090655327 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.184328567 Longitude: -88.090655327

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION VL-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-22. SEE FIGURE 3-2 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: 500-59744-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-22
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	VL-2(0.5-1.5)-072413	**Soil Reference Concentrations[A]**
Sample Date	7/24/2013	
Location ID	VL-2	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.83	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Anthracene	24 J	1.2E+07
Benzo(a)anthracene	140	900 / 1100 / 1800
Benzo(a)pyrene	140	90 / 1300 / 2100
Benzo(b)fluoranthene	200	900 / 1500 / 2100
Benzo(g,h,i)perylene	110	---
Benzo(k)fluoranthene	74	9000
bis(2-Ethylhexyl)phthalate	250	46000
Chrysene	150	88000
Dibenzo(a,h)anthracene	26 J	90 / 200 / 420
Fluoranthene	280	3100000
Indeno(1,2,3-cd)pyrene	110	900 / 900 / 1600
Phenanthrene	170	---
Pyrene	210	2300000
TCL Metals (mg/kg)		
Aluminum, Total	11000 B	---
Arsenic, Total	8.9	11.3 / 13
Barium, Total	55	1500
Beryllium, Total	0.62	22
Cadmium, Total	0.8	5.2
Calcium, Total	40000 B	---
Chromium, Total	16	21
Cobalt, Total	11	20
Copper, Total	22	2900
Iron, Total	18000 B	15000 / 15900
Lead, Total	24 B	107
Magnesium, Total	24000 B	325000
Manganese, Total	560 B	630
Mercury, Total	0.035	0.89
Nickel, Total	22 B	100
Potassium, Total	2100	---
Sodium, Total	1400	---
Thallium, Total	0.26 J	2.6
Vanadium, Total	21	550
Zinc, Total	49 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.99 B	2
Manganese, TCLP	1.5	0.15
Zinc, TCLP	0.65	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.043 J	0.05
Barium, SPLP	0.85	2
Beryllium, SPLP	0.0055	0.004
Cadmium, SPLP	0.003 J	0.005
Chromium, SPLP	0.1	0.1
Cobalt, SPLP	0.034	1
Copper, SPLP	0.12	0.65
Iron, SPLP	110	5
Lead, SPLP	0.12	0.0075
Manganese, SPLP	0.68	0.15
Mercury, SPLP	0.00025	0.002
Nickel, SPLP	0.11	0.1
Zinc, SPLP	0.64	5

Summary Table of ISGS Site No. 2664-22
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59744-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 4:52:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: VL-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-6
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	☼		08/01/13 03:33	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		08/01/13 03:33	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		08/01/13 03:33	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/01/13 03:33	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/01/13 03:33	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		08/01/13 03:33	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 03:33	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		08/01/13 03:33	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		08/01/13 03:33	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		08/01/13 03:33	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 03:33	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		08/01/13 03:33	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 03:33	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 03:33	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		08/01/13 03:33	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/01/13 03:33	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		08/01/13 03:33	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		08/01/13 03:33	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 03:33	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 03:33	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		08/01/13 03:33	1
Methylene Chloride	<5.7		5.7	1.6	ug/Kg	☼		08/01/13 03:33	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		08/01/13 03:33	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 03:33	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		08/01/13 03:33	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 03:33	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 03:33	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		08/01/13 03:33	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		08/01/13 03:33	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		08/01/13 03:33	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 03:33	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		08/01/13 03:33	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		08/01/13 03:33	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		08/01/13 03:33	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 03:33	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		08/01/13 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/01/13 03:33*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*08/01/13 03:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/01/13 03:33*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*08/01/13 03:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1

Client Sample ID: VL-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-6
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	<360		360	100	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2,4,6-Trichlorophenol	<360		360	45	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2,4-Dinitrophenol	<730		730	190	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2,6-Dinitrotoluene	<180		180	43	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2-Methylnaphthalene	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2-Methylphenol	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2-Nitroaniline	<180		180	65	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
3-Nitroaniline	<360		360	70	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
4,6-Dinitro-2-methylphenol	<360		360	88	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
4-Bromophenyl phenyl ether	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
4-Chloro-3-methylphenol	<360		360	170	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
4-Chloroaniline	<730		730	110	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
4-Chlorophenyl phenyl ether	<180		180	57	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
4-Nitroaniline	<360		360	74	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
4-Nitrophenol	<730		730	200	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Acenaphthene	<36		36	11	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Acenaphthylene	<36		36	8.3	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Anthracene	**24**	**J**	36	8.5	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Benzo[a]anthracene	**140**		36	7.6	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Benzo[a]pyrene	**140**		36	6.6	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Benzo[b]fluoranthene	**200**		36	7.0	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Benzo[g,h,i]perylene	**110**		36	12	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Benzo[k]fluoranthene	**74**		36	8.6	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Bis(2-ethylhexyl) phthalate	**250**		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Butyl benzyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Carbazole	<180		180	51	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Chrysene	**150**		36	8.2	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Dibenz(a,h)anthracene	**26**	**J**	36	10	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Dibenzofuran	<180		180	44	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Diethyl phthalate	<180	*	180	60	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Fluoranthene	**280**		36	15	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Fluorene	<36		36	8.2	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Hexachlorobenzene	<73		73	7.1	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Hexachlorobutadiene	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Hexachlorocyclopentadiene	<730		730	170	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Hexachloroethane	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: VL-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-6
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	110		36	12	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Isophorone	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Naphthalene	<36		36	7.0	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Nitrobenzene	<36		36	11	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
N-Nitrosodi-n-propylamine	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
N-Nitrosodiphenylamine	<180		180	49	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Pentachlorophenol	<730		730	180	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Phenanthrene	170		36	15	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Phenol	<180		180	57	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1
Pyrene	210		36	13	ug/Kg	☼	07/30/13 07:34	08/01/13 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*35 - 137*	*07/30/13 07:34*	*08/01/13 20:41*	*1*
2-Fluorobiphenyl	*73*		*30 - 119*	*07/30/13 07:34*	*08/01/13 20:41*	*1*
2-Fluorophenol	*68*		*30 - 110*	*07/30/13 07:34*	*08/01/13 20:41*	*1*
Nitrobenzene-d5	*72*		*30 - 115*	*07/30/13 07:34*	*08/01/13 20:41*	*1*
Phenol-d5	*75*		*31 - 110*	*07/30/13 07:34*	*08/01/13 20:41*	*1*
Terphenyl-d14	*81*		*36 - 134*	*07/30/13 07:34*	*08/01/13 20:41*	*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		07/28/13 15:00	08/07/13 00:59	1
Barium	0.99	B	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 00:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 00:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 00:59	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:59	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 00:59	1
Copper	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:59	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 00:59	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 00:59	1
Manganese	1.5		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:59	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 00:59	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 00:59	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 00:59	1
Zinc	0.65		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 12:33	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		07/26/13 12:00	08/02/13 19:35	1
Barium	0.85		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 19:35	1
Beryllium	0.0055		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 19:35	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 19:35	1
Chromium	0.10		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:35	1
Cobalt	0.034		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 19:35	1
Copper	0.12		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:35	1
Iron	110		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 19:35	1
Lead	0.12		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 19:35	1
Manganese	0.68		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:35	1
Nickel	0.11		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:35	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 19:35	1

Client Sample ID: VL-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-6
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	0.0050	mg/L		07/26/13 12:00	08/02/13 19:35	1
Zinc	**0.64**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 19:35	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**	**B**	11	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Arsenic	**8.9**		0.57	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Barium	**55**		0.57	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Beryllium	**0.62**		0.23	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Cadmium	**0.80**		0.11	0.015	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Calcium	**40000**	**B**	11	3.1	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Chromium	**16**		0.57	0.066	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Cobalt	**11**		0.29	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Copper	**22**		0.57	0.051	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Iron	**18000**	**B**	11	4.7	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Lead	**24**	**B**	0.29	0.085	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Magnesium	**24000**	**B**	5.7	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Manganese	**560**	**B**	0.57	0.031	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Nickel	**22**	**B**	0.57	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Potassium	**2100**		29	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Selenium	**0.27**	**J**	0.57	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Sodium	**1400**		57	7.7	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Thallium	**0.26**	**J**	0.57	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Vanadium	**21**		0.29	0.042	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1
Zinc	**49**	**B**	1.1	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 03:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:48	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	**35**		19	8.9	ug/Kg	☼	07/25/13 17:00	07/26/13 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.83**		0.200	0.200	SU			08/03/13 13:05	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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.

500-59744 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich, IL
Lab Project #:
Sampler: T. Walls
Lab PM: Dwight

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	Parameter: SVOCs	Parameter: TCL metals	Parameter: TCLP 8260 metals	Parameter: PH					Comments
1		BS-1(0.5-1.5)-072413	7-24-13	0815	2	S		X	X	X	X	X					
2		WB-1(0.5-1.5)-072413		0825													
3		WB-2(0.5-1.5)-072413		0840													
4		ST-1(0.5-1.5)-072413		0900													
5		VL-1(0.5-1.5)-072413		0910													
6		VL-2(0.5-1.5)-072413		0925													
7		LA-1(0.5-1.5)-072413		0935													
8		LA-2(0.5-1.5)-072413		0955													
9		LA-3(0.5-1.5)-072413		1015													
10		LA-3(0.5-1.5)-072413Dup	7-24-13	1015	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days 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	Weston	7-24-13	1535	Dale Matter	TA	7-24-13	1535
Dale Matter	TA	7-24-13	1732	Shannon Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
Contact: S.Balusubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, 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 #: 500-59744
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT 004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LA-4(0.5-1.5)-072413	7-24-13	1040	2	S	X	X	X	X	X					
12		MB-1(0.5-1.5)-072413	↓	1055	↓		↓	↓	↓	↓	↓					
13		MB-2(0.5-1.5)-072413	↓	1105	↓		↓	↓	↓	↓	↓					
14		MB-3(0.5-1.5)-072413	↓	1125	↓		↓	↓	↓	↓	↓					
15		HA-1(0.5-1.5)-072413	↓	1140	↓		↓	↓	↓	↓	↓					
16		SM5-1(0.5-1.5)-072413	↓	1215	↓		↓	↓	↓	↓	↓					
17		SM5-2(0.5-1.5)-072413	↓	1230	↓		↓	↓	↓	↓	↓					
18		SM5-3(0.5-1.5)-072413	↓	1250	↓		↓	↓	↓	↓	↓					
19		SM6-1(0.5-1.5)-072413	↓	1310	↓		↓	↓	↓	↓	↓					
20		SM6-1(0.5-1.5)-072413Dup	7-24-13	1310	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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	Weston	7-24-13	1535	[signature]	TA	7-24-13	1535
[signature]	TA	7-24-13	1732	Shunna Scott	TA-CHI	7/25/13	0615

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

742 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.184510999 (Decimal Degrees) Longitude: -88.090238203 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.184510999 Longitude: -88.090238203

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 PH-1 AND PH-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-23. SEE FIGURE 3-2 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: 500-60028-1.

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 Transporation

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:

7/15/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

P.E., L.P.G. Seal:

Summary Table of ISGS Site No. 2664-23
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	PH-1(0.5-1.5)-072913	PH-2(0.5-1.5)-072913	**Soil Reference Concentrations[A]**
Sample Date	7/29/2013	7/29/2013	
Location ID	PH-1	PH-2	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.86	8.26	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	41	27 J	900 / 1100 / 1800
Benzo(a)pyrene	56	30 J	90 / 1300 / 2100
Benzo(b)fluoranthene	85	47	900 / 1500 / 2100
Benzo(g,h,i)perylene	40	32 J	---
Benzo(k)fluoranthene	41	15 J	9000
Chrysene	66	36 J	88000
Dibenzo(a,h)anthracene	16 J	ND	90 / 200 / 420
Fluoranthene	94	55	3100000
Indeno(1,2,3-cd)pyrene	43	23 J	900 / 900 / 1600
Phenanthrene	28 J	53	---
Pyrene	81	47	2300000
TCL Metals (mg/kg)			
Aluminum, Total	8800 B	7400 B	---
Arsenic, Total	8.5	8.1	11.3 / 13
Barium, Total	51	42	1500
Beryllium, Total	0.51	0.45	22
Cadmium, Total	0.34	0.30	5.2
Calcium, Total	55000 B	61000 B	---
Chromium, Total	15	12	21
Cobalt, Total	10	9.8	20
Copper, Total	25 B	22 B	2900
Iron, Total	17000	17000	15000 / 15900
Lead, Total	22	57	107
Magnesium, Total	25000 B	29000 B	325000
Manganese, Total	340	340	630
Mercury, Total	0.021	0.016 J	0.89
Nickel, Total	26	23	100
Potassium, Total	1400	1200	---
Sodium, Total	1800	950	---
Thallium, Total	0.25 J	ND	2.6
Vanadium, Total	19	17	550
Zinc, Total	68 B	63 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.69 B	0.76 B	2
Cobalt, TCLP	ND	0.0079 J	1
Copper, TCLP	ND	0.011 J	0.65
Iron, TCLP	0.42	2.4	5
Manganese, TCLP	0.82	2.8	0.15
Mercury, TCLP	0.000 J	0.000 J	0.002
Nickel, TCLP	0.012 J	0.019 J	0.1
SPLP Metals (mg/l)			
Barium, SPLP	0.71 B	0.82 B	2
Chromium, SPLP	0.032	0.032	0.1
Cobalt, SPLP	0.0079 J	0.013 J	1
Copper, SPLP	0.042	0.046	0.65
Iron, SPLP	30	30	5
Lead, SPLP	0.020	0.042	0.0075
Manganese, SPLP	0.20	0.47	0.15
Nickel, SPLP	0.031	0.041	0.1
Zinc, SPLP	0.49	0.58	5

Summary Table of ISGS Site No. 2664-23
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-60028-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/13/2013 2:28:21 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: PH-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-7
Matrix: Solid
Percent Solids: 85.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		08/07/13 02:36	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		08/07/13 02:36	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/07/13 02:36	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/07/13 02:36	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		08/07/13 02:36	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		08/07/13 02:36	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/07/13 02:36	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/07/13 02:36	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/07/13 02:36	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		08/07/13 02:36	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 02:36	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		08/07/13 02:36	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		08/07/13 02:36	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/07/13 02:36	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		08/07/13 02:36	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/07/13 02:36	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		08/07/13 02:36	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		08/07/13 02:36	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		08/07/13 02:36	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 02:36	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/07/13 02:36	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/07/13 02:36	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/07/13 02:36	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/07/13 02:36	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		08/07/13 02:36	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		08/07/13 02:36	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 02:36	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		08/07/13 02:36	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		08/07/13 02:36	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		08/07/13 02:36	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/07/13 02:36	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/07/13 02:36	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		08/07/13 02:36	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		08/07/13 02:36	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 02:36	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/07/13 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 122*		*08/07/13 02:36*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/07/13 02:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*		*08/07/13 02:36*	*1*
Toluene-d8 (Surr)	*92*		*75 - 122*		*08/07/13 02:36*	*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	44	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
1,2-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: PH-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-7
Matrix: Solid
Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	110	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2,4,6-Trichlorophenol	<380		380	48	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2,4-Dichlorophenol	<380		380	120	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2,4-Dimethylphenol	<380		380	120	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2,4-Dinitrophenol	<780		780	200	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2,6-Dinitrotoluene	<190		190	46	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2-Chlorophenol	<190		190	55	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2-Methylnaphthalene	<190		190	50	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2-Methylphenol	<190		190	51	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2-Nitroaniline	<190		190	69	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
2-Nitrophenol	<380		380	60	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
3 & 4 Methylphenol	<190		190	73	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
3,3'-Dichlorobenzidine	<190		190	32	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
3-Nitroaniline	<380		380	74	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
4,6-Dinitro-2-methylphenol	<380		380	93	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
4-Bromophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
4-Chloro-3-methylphenol	<380		380	180	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
4-Chloroaniline	<780		780	120	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
4-Chlorophenyl phenyl ether	<190		190	61	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
4-Nitroaniline	<380		380	79	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
4-Nitrophenol	<780		780	210	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Acenaphthene	<38		38	11	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Acenaphthylene	<38		38	8.8	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Anthracene	<38		38	9.0	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Benzo[a]anthracene	**41**		38	8.1	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Benzo[a]pyrene	**56**		38	7.0	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Benzo[b]fluoranthene	**85**		38	7.5	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Benzo[g,h,i]perylene	**40**		38	13	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Benzo[k]fluoranthene	**41**		38	9.2	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Bis(2-chloroethoxy)methane	<190		190	42	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Bis(2-ethylhexyl) phthalate	<190		190	51	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Butyl benzyl phthalate	<190		190	48	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Carbazole	<190		190	54	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Chrysene	**66**		38	8.7	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Dibenz(a,h)anthracene	**16**	**J**	38	11	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Dibenzofuran	<190		190	46	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Di-n-butyl phthalate	<190		190	48	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Di-n-octyl phthalate	<190		190	78	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Fluoranthene	**94**		38	16	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Fluorene	<38		38	8.7	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Hexachlorobenzene	<78		78	7.6	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Hexachlorobutadiene	<190		190	50	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Hexachlorocyclopentadiene	<780		780	180	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Hexachloroethane	<190		190	41	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: PH-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-7
Matrix: Solid
Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	43		38	13	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Isophorone	<190		190	43	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Naphthalene	<38		38	7.4	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Nitrobenzene	<38		38	12	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
N-Nitrosodi-n-propylamine	<190		190	49	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
N-Nitrosodiphenylamine	<190		190	52	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Pentachlorophenol	<780		780	200	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Phenanthrene	28	J	38	16	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Phenol	<190		190	61	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1
Pyrene	81		38	14	ug/Kg	☼	08/08/13 07:07	08/12/13 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*35 - 137*	*08/08/13 07:07*	*08/12/13 18:38*	*1*
2-Fluorobiphenyl	*74*		*30 - 119*	*08/08/13 07:07*	*08/12/13 18:38*	*1*
2-Fluorophenol	*61*		*30 - 110*	*08/08/13 07:07*	*08/12/13 18:38*	*1*
Nitrobenzene-d5	*58*		*30 - 115*	*08/08/13 07:07*	*08/12/13 18:38*	*1*
Phenol-d5	*66*		*31 - 110*	*08/08/13 07:07*	*08/12/13 18:38*	*1*
Terphenyl-d14	*94*		*36 - 134*	*08/08/13 07:07*	*08/12/13 18:38*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:40	1
Barium	0.69	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 07:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 07:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 07:40	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:40	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:40	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:40	1
Iron	0.42		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 07:40	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 07:40	1
Manganese	0.82		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:40	1
Nickel	0.012	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:40	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:40	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:40	1
Zinc	0.23	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 07:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:15	1
Barium	0.71	B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:15	1
Chromium	0.032		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:15	1
Cobalt	0.0079	J	0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:15	1
Copper	0.042		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:15	1
Iron	30		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:15	1
Lead	0.020		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:15	1
Manganese	0.20		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:15	1
Nickel	0.031		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:15	1

Client Sample ID: PH-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:45
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-7
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:15	1
Zinc	0.49		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:15	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8800	B	12	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Arsenic	8.5		0.58	0.12	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Barium	51		0.58	0.062	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Beryllium	0.51		0.23	0.020	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Cadmium	0.34		0.12	0.015	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Calcium	55000	B	120	31	mg/Kg	☼	07/31/13 08:28	08/12/13 13:35	10
Chromium	15		0.58	0.067	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Cobalt	10		0.29	0.021	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Copper	25	B	0.58	0.051	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Iron	17000		12	4.8	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Lead	22		0.29	0.086	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Magnesium	25000	B	5.8	1.2	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Manganese	340		0.58	0.031	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Nickel	26		0.58	0.057	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Potassium	1400		29	1.7	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Selenium	0.42	J	0.58	0.21	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Sodium	1800		58	7.8	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Thallium	0.25	J	0.58	0.24	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Vanadium	19		0.29	0.043	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1
Zinc	68	B	1.2	0.23	mg/Kg	☼	07/31/13 08:28	08/11/13 13:46	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 10:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048	J B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:47	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		18	8.5	ug/Kg	☼	08/02/13 14:30	08/05/13 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.86		0.200	0.200	SU			08/10/13 11:58	1

Client Sample ID: PH-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:00
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-8
Matrix: Solid
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	☼		08/07/13 02:59	1
Benzene	<5.6		5.6	0.77	ug/Kg	☼		08/07/13 02:59	1
Bromodichloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/07/13 02:59	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/07/13 02:59	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/07/13 02:59	1
Carbon disulfide	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 02:59	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 02:59	1
Chlorobenzene	<5.6		5.6	0.57	ug/Kg	☼		08/07/13 02:59	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 02:59	1
Chloroform	<5.6		5.6	0.65	ug/Kg	☼		08/07/13 02:59	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 02:59	1
cis-1,2-Dichloroethene	<5.6		5.6	0.80	ug/Kg	☼		08/07/13 02:59	1
cis-1,3-Dichloropropene	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 02:59	1
Dibromochloromethane	<5.6		5.6	0.98	ug/Kg	☼		08/07/13 02:59	1
1,1-Dichloroethane	<5.6		5.6	0.89	ug/Kg	☼		08/07/13 02:59	1
1,2-Dichloroethane	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 02:59	1
1,1-Dichloroethene	<5.6		5.6	0.91	ug/Kg	☼		08/07/13 02:59	1
1,2-Dichloropropane	<5.6		5.6	0.86	ug/Kg	☼		08/07/13 02:59	1
1,3-Dichloropropene, Total	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 02:59	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 02:59	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/07/13 02:59	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 02:59	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/07/13 02:59	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/07/13 02:59	1
Methyl tert-butyl ether	<5.6		5.6	0.93	ug/Kg	☼		08/07/13 02:59	1
Styrene	<5.6		5.6	0.74	ug/Kg	☼		08/07/13 02:59	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/07/13 02:59	1
Tetrachloroethene	<5.6		5.6	0.86	ug/Kg	☼		08/07/13 02:59	1
Toluene	<5.6		5.6	0.79	ug/Kg	☼		08/07/13 02:59	1
trans-1,2-Dichloroethene	<5.6		5.6	0.78	ug/Kg	☼		08/07/13 02:59	1
trans-1,3-Dichloropropene	<5.6		5.6	1.0	ug/Kg	☼		08/07/13 02:59	1
1,1,1-Trichloroethane	<5.6		5.6	0.84	ug/Kg	☼		08/07/13 02:59	1
1,1,2-Trichloroethane	<5.6		5.6	0.77	ug/Kg	☼		08/07/13 02:59	1
Trichloroethene	<5.6		5.6	0.93	ug/Kg	☼		08/07/13 02:59	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/07/13 02:59	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		08/07/13 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 122*		*08/07/13 02:59*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/07/13 02:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*		*08/07/13 02:59*	*1*
Toluene-d8 (Surr)	*96*		*75 - 122*		*08/07/13 02:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: PH-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:00
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-8
Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2,4,6-Trichlorophenol	<370		370	47	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2,4-Dinitrophenol	<750		750	190	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2-Methylphenol	<190		190	50	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2-Nitroaniline	<190		190	67	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
3 & 4 Methylphenol	<190		190	71	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
3-Nitroaniline	<370		370	72	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
4-Bromophenyl phenyl ether	<190		190	42	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
4-Chloroaniline	<750		750	110	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
4-Chlorophenyl phenyl ether	<190		190	59	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
4-Nitrophenol	<750		750	200	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Acenaphthylene	<37		37	8.6	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Anthracene	<37		37	8.8	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Benzo[a]anthracene	**27**	**J**	37	7.8	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Benzo[a]pyrene	**30**	**J**	37	6.8	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Benzo[b]fluoranthene	**47**		37	7.2	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Benzo[g,h,i]perylene	**32**	**J**	37	13	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Benzo[k]fluoranthene	**15**	**J**	37	8.9	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Butyl benzyl phthalate	<190		190	47	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Carbazole	<190		190	52	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Chrysene	**36**	**J**	37	8.4	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Dibenz(a,h)anthracene	<37		37	10	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Dimethyl phthalate	<190		190	47	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Di-n-octyl phthalate	<190		190	76	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Fluoranthene	**55**		37	15	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Fluorene	<37		37	8.5	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Hexachlorobenzene	<75		75	7.3	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Hexachlorocyclopentadiene	<750		750	170	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Hexachloroethane	<190		190	40	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: PH-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:00
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-8
Matrix: Solid
Percent Solids: 88.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	23	J	37	13	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Isophorone	<190		190	42	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Naphthalene	<37		37	7.2	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Nitrobenzene	<37		37	12	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Pentachlorophenol	<750		750	190	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Phenanthrene	53		37	16	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Phenol	<190		190	59	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1
Pyrene	47		37	13	ug/Kg	☼	08/08/13 07:07	08/13/13 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*35 - 137*	*08/08/13 07:07*	*08/13/13 05:56*	*1*
2-Fluorobiphenyl	*61*		*30 - 119*	*08/08/13 07:07*	*08/13/13 05:56*	*1*
2-Fluorophenol	*63*		*30 - 110*	*08/08/13 07:07*	*08/13/13 05:56*	*1*
Nitrobenzene-d5	*58*		*30 - 115*	*08/08/13 07:07*	*08/13/13 05:56*	*1*
Phenol-d5	*70*		*31 - 110*	*08/08/13 07:07*	*08/13/13 05:56*	*1*
Terphenyl-d14	*64*		*36 - 134*	*08/08/13 07:07*	*08/13/13 05:56*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:46	1
Barium	0.76	B	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 07:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 07:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 07:46	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:46	1
Cobalt	0.0079	J	0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:46	1
Copper	0.011	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:46	1
Iron	2.4		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 07:46	1
Lead	0.013	B	0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 07:46	1
Manganese	2.8		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:46	1
Nickel	0.019	J	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:46	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:46	1
Zinc	0.22	B	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 07:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:19	1
Barium	0.82	B	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:19	1
Chromium	0.032		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:19	1
Cobalt	0.013	J	0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:19	1
Copper	0.046		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:19	1
Iron	30		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:19	1
Lead	0.042		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:19	1
Manganese	0.47		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:19	1
Nickel	0.041		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:19	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:19	1

Client Sample ID: PH-2(0.5-1.5)-072913
Date Collected: 07/29/13 09:00
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-8
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:19	1
Zinc	0.58		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7400	B	11	1.0	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Arsenic	8.1		0.54	0.11	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Barium	42		0.54	0.058	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Beryllium	0.45		0.22	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Cadmium	0.30		0.11	0.014	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Calcium	61000	B	110	30	mg/Kg	☼	07/31/13 08:28	08/12/13 13:46	10
Chromium	12		0.54	0.063	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Cobalt	9.8		0.27	0.019	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Copper	22	B	0.54	0.048	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Iron	17000		11	4.5	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Lead	57		0.27	0.081	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Magnesium	29000	B	5.4	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Manganese	340		0.54	0.030	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Nickel	23		0.54	0.053	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Potassium	1200		27	1.6	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Selenium	0.33	J	0.54	0.19	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Sodium	950		54	7.3	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Vanadium	17		0.27	0.040	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1
Zinc	63	B	1.1	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 13:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 10:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048	J B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:49	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	16	J	17	7.9	ug/Kg	☼	08/02/13 14:30	08/05/13 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.26		0.200	0.200	SU			08/10/13 12:01	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5

Chain of Custody Record

Lab Job #: 500-60028

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.6, 3.9

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste 500	Address:	
Address:	Vernon Hills, IL	Address:	Same
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Weston	Cli	500-60028 COC
Project Name	IDOT-004		
Project Location/State	Lake Zurich, 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	TCL metals	TCLP/SPLP metals	pH					Comments
1		SM3-2(0.5-1.5)-072913	7-29-13	0740	2	S		X	X	X	X	X					
2		AH-1(0.5-1.5)-072913		0750													
3		YP-1(0.5-1.5)-072913		0800													
4		YP-2(0.5-1.5)-072913		0810													
5		LF-1(0.5-1.5)-072913		0825													
6		LF-2(0.5-1.5)-072913		0835													
7		PH-1(0.5-1.5)-072913		0845													
8		pH-2(0.5-1.5)-072913		0900													
9		SM2-1(0.5-1.5)-072913		0915													
10		SM2-1(0.5-1.5)-072913Dup	7-29-13	0915	2	S		X	X	X	X	X					

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
T. Walls	Weston	7-29-13	1340		TAC	7-29-13	1340
	TAC	7-29-13	1530	Steve Scott	TA-CHI	7/29/13	1530

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
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-60028
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler: 3.6, 3.9

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/IL
Lab Project #:
Sampler: T. Walls
Lab PM: D. Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	PH					Comments
11		SM2-2(0.5-1.5)-072913	7-29-13	0935	2	S	X	X	X	X	X					
12		SM2-3(0.5-1.5)-072913	↓	0945	↓	↓	↓	↓	↓	↓	↓					
13		CC-1(0.5-1.5)-072913	↓	0955	↓	↓	↓	↓	↓	↓	↓					
14		CC-2(0.5-1.5)-072913	↓	1010	↓	↓	↓	↓	↓	↓	↓					
15		CC-3(0.5-1.5)-072913	↓	1025	↓	↓	↓	↓	↓	↓	↓					
16		CC-4(0.5-1.5)-072913	↓	1040	↓	↓	↓	↓	↓	↓	↓					
17		TF-1(0.5-1.5)-072913	↓	1050	↓	↓	↓	↓	↓	↓	↓					
18		TF-2(0.5-1.5)-072913	↓	1105	↓	↓	↓	↓	↓	↓	↓					
19		TF-3(0.5-1.5)-072913	↓	1115	↓	↓	↓	↓	↓	↓	↓					
20		TF-3(0.5-1.5)-072913 Dup	7-29-13	1115	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
T. Walls	Weston	7-29-13	1340	[signature]	TA	7-29-13	1340
[signature]	TAL	7-29-13	1530	[signature]	TA-CHI	7/29/13	1530

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
825 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.183718387 (Decimal Degrees) Longitude: -88.088402971 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.183718387 Longitude: -88.088402971

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 LA-2, LA-3, AND LA-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-24. SEE FIGURE 3-2 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: 500-59744-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-24
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	LA-2(0.5-1.5)-072413	LA-3(0.5-1.5)-072413	LA-3(0.5-1.5)-072413D	LA-4(0.5-1.5)-072413	Soil Reference Concentrations[A]
Sample Date	7/24/2013	7/24/2013	7/24/2013	7/24/2013	
Location ID	LA-2	LA-3	LA-3	LA-4	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH	8.47	8.72	8.62	8.65	<6.25,.9.0
VOCs (ug/kg)	None Detected				
SVOCs (ug/kg)					
Anthracene	24 J	ND	ND	ND	1.2E+07
Benzo(a)anthracene	180	42	35 J	16 J	900 / 1100 / 1800
Benzo(a)pyrene	250	43	38 J	20 J	90 / 1300 / 2100
Benzo(b)fluoranthene	440	75	65	35 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	310	49	16 J	35 J	---
Benzo(k)fluoranthene	200	23 J	20 J	14 J	9000
bis(2-Ethylhexyl)phthalate	71 J	ND	ND	ND	46000
Chrysene	260	55	47	35 J	88000
Dibenzo(a,h)anthracene	64	ND	ND	ND	90 / 200 / 420
Fluoranthene	400	83	63	23 J	3100000
Indeno(1,2,3-cd)pyrene	270	36 J	40	14 J	900 / 900 / 1600
Phenanthrene	160	31 J	17 J	21 J	---
Pyrene	290	60	44	20 J	2300000
TCL Metals (mg/kg)					
Aluminum, Total	9100 B	13000 B	12000 B	9200 B	---
Arsenic, Total	13	7.6	6.7	7	11.3 / 13
Barium, Total	63	86	86	39	1500
Beryllium, Total	0.56	0.74	0.69	0.55	22
Cadmium, Total	1	0.63	0.57	0.74	5.2
Calcium, Total	36000 B	18000 B	12000 B	51000 B	---
Chromium, Total	20	18	17	15	21
Cobalt, Total	8	9.4	8.1	9.7	20
Copper, Total	36	23	25	23	2900
Iron, Total	18000 B	19000 B	18000 B	18000 B	15000 / 15900
Lead, Total	56 B	23 B	31 B	14 B	107
Magnesium, Total	21000 B	13000 B	8200 B	32000 B	325000
Manganese, Total	460 B	480 B	390 B	400 B	630
Mercury, Total	0.032	0.052	0.047	0.029	0.89
Nickel, Total	22 B	21 B	19 B	23 B	100
Potassium, Total	1700	2000	1600	2600	---
Silver, Total	0.057 J	0.21 J	0.31	0.036 J	4.4
Sodium, Total	1100	1400	1400	1700	---
Thallium, Total	0.26 J	0.27 J	ND	0.25 J	2.6
Vanadium, Total	21	26	25	18	550
Zinc, Total	87 B	54 B	54 B	44 B	5100
TCLP Metals (mg/l)					
Barium, TCLP	1.1 B	1 B	1.2 B	1.2 B	2
Cobalt, TCLP	ND	ND	ND	0.0083 J	1
Copper, TCLP	0.012 J	ND	0.011 J	0.011 J	0.65
Manganese, TCLP	0.38	0.52	0.38	1.5	0.15
Nickel, TCLP	ND	ND	ND	0.013 J	0.1
Zinc, TCLP	0.74	0.56	0.74	0.88	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.033 J	0.042 J	0.019 J	0.05	0.05
Barium, SPLP	0.76	1 J	0.41 J	0.83	2
Beryllium, SPLP	0.0043	0.0064	ND	0.0073	0.004
Cadmium, SPLP	0.003 J	0.0042 J	ND	0.0035 J	0.005
Chromium, SPLP	0.1	0.16 J	0.068 J	0.16	0.1
Cobalt, SPLP	0.028	0.036 J	0.015 J	0.052	1
Copper, SPLP	0.12	0.13 J	0.052 J	0.18	0.65
Iron, SPLP	91	150 J	61 J	130	5
Lead, SPLP	0.16	0.11 J	0.038 J	0.076	0.0075
Manganese, SPLP	0.55	0.73 J	0.3 J	0.7	0.15
Mercury, SPLP	0.0001 J	0.00029	0.00029	0.00013 J	0.002
Nickel, SPLP	0.091	0.13 J	0.054 J	0.18	0.1
Zinc, SPLP	0.68	0.73	0.3	0.75	5

Summary Table of ISGS Site No. 2664-24
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59744-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 4:52:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: LA-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-8
Matrix: Solid
Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		08/01/13 04:20	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		08/01/13 04:20	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 04:20	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/01/13 04:20	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		08/01/13 04:20	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		08/01/13 04:20	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/01/13 04:20	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/01/13 04:20	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 04:20	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		08/01/13 04:20	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 04:20	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		08/01/13 04:20	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 04:20	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 04:20	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		08/01/13 04:20	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/01/13 04:20	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		08/01/13 04:20	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		08/01/13 04:20	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 04:20	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 04:20	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/01/13 04:20	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 04:20	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/01/13 04:20	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/01/13 04:20	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		08/01/13 04:20	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 04:20	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 04:20	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		08/01/13 04:20	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		08/01/13 04:20	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		08/01/13 04:20	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 04:20	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/01/13 04:20	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		08/01/13 04:20	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		08/01/13 04:20	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 04:20	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/01/13 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*08/01/13 04:20*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*08/01/13 04:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/01/13 04:20*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*08/01/13 04:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-8
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2,4,6-Trichlorophenol	<370		370	47	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2,4-Dinitrophenol	<750		750	190	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2-Methylphenol	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2-Nitroaniline	<190		190	67	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
3 & 4 Methylphenol	<190		190	70	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
3-Nitroaniline	<370		370	72	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
4-Bromophenyl phenyl ether	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
4-Chloroaniline	<750		750	110	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
4-Chlorophenyl phenyl ether	<190		190	58	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
4-Nitrophenol	<750		750	200	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Acenaphthene	<37		37	11	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Acenaphthylene	<37		37	8.5	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Anthracene	**24**	**J**	37	8.7	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Benzo[a]anthracene	**180**		37	7.8	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Benzo[a]pyrene	**250**		37	6.8	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Benzo[b]fluoranthene	**440**		37	7.2	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Benzo[g,h,i]perylene	**310**		37	13	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Benzo[k]fluoranthene	**200**		37	8.9	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Bis(2-ethylhexyl) phthalate	**71**	**J**	190	49	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Butyl benzyl phthalate	<190		190	46	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Carbazole	<190		190	52	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Chrysene	**260**		37	8.4	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Dibenz(a,h)anthracene	**64**		37	10	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Dibenzofuran	<190		190	45	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Diethyl phthalate	<190	*	190	62	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Dimethyl phthalate	<190		190	46	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Di-n-octyl phthalate	<190		190	75	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Fluoranthene	**400**		37	15	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Fluorene	<37		37	8.4	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Hexachlorobenzene	<75		75	7.3	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Hexachlorocyclopentadiene	<750		750	170	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Hexachloroethane	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-8
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	270		37	13	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Isophorone	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Naphthalene	<37		37	7.2	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Nitrobenzene	<37		37	12	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Pentachlorophenol	<750		750	190	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Phenanthrene	160		37	16	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Phenol	<190		190	59	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1
Pyrene	290		37	13	ug/Kg	☼	07/30/13 07:34	08/06/13 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*35 - 137*	*07/30/13 07:34*	*08/06/13 22:35*	*1*
2-Fluorobiphenyl	*72*		*30 - 119*	*07/30/13 07:34*	*08/06/13 22:35*	*1*
2-Fluorophenol	*67*		*30 - 110*	*07/30/13 07:34*	*08/06/13 22:35*	*1*
Nitrobenzene-d5	*75*		*30 - 115*	*07/30/13 07:34*	*08/06/13 22:35*	*1*
Phenol-d5	*78*		*31 - 110*	*07/30/13 07:34*	*08/06/13 22:35*	*1*
Terphenyl-d14	*78*		*36 - 134*	*07/30/13 07:34*	*08/06/13 22:35*	*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		07/28/13 15:00	08/07/13 01:12	1
Barium	1.1	B	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 01:12	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 01:12	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 01:12	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:12	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:12	1
Copper	0.012	J	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:12	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 01:12	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 01:12	1
Manganese	0.38		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:12	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:12	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:12	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:12	1
Zinc	0.74		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.033	J	0.050	0.010	mg/L		07/26/13 12:00	08/02/13 19:48	1
Barium	0.76		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 19:48	1
Beryllium	0.0043		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 19:48	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 19:48	1
Chromium	0.10		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:48	1
Cobalt	0.028		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 19:48	1
Copper	0.12		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:48	1
Iron	91		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 19:48	1
Lead	0.16		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 19:48	1
Manganese	0.55		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:48	1
Nickel	0.091		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:48	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 19:48	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-2(0.5-1.5)-072413
Date Collected: 07/24/13 09:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-8
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	0.0050	mg/L		07/26/13 12:00	08/02/13 19:48	1
Zinc	**0.68**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 19:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**	**B**	11	0.97	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Arsenic	**13**		0.53	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Barium	**63**		0.53	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Beryllium	**0.56**		0.21	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Cadmium	**1.0**		0.11	0.013	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Calcium	**36000**	**B**	11	2.9	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Chromium	**20**		0.53	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Cobalt	**8.0**		0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Copper	**36**		0.53	0.047	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Iron	**18000**	**B**	11	4.3	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Lead	**56**	**B**	0.26	0.079	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Magnesium	**21000**	**B**	5.3	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Manganese	**460**	**B**	0.53	0.029	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Nickel	**22**	**B**	0.53	0.052	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Potassium	**1700**		26	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Selenium	**0.28**	**J**	0.53	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Silver	**0.057**	**J**	0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Sodium	**1100**		53	7.1	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Thallium	**0.26**	**J**	0.53	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Vanadium	**21**		0.26	0.039	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1
Zinc	**87**	**B**	1.1	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 04:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**	**J**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:52	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**		19	8.9	ug/Kg	☼	07/25/13 17:00	07/26/13 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.47**		0.200	0.200	SU			08/03/13 13:11	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-3(0.5-1.5)-072413
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-9
Matrix: Solid
Percent Solids: 84.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.6	ug/Kg	☼		08/01/13 04:43	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		08/01/13 04:43	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/01/13 04:43	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		08/01/13 04:43	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		08/01/13 04:43	1
Carbon disulfide	<5.9		5.9	0.89	ug/Kg	☼		08/01/13 04:43	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		08/01/13 04:43	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		08/01/13 04:43	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 04:43	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		08/01/13 04:43	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 04:43	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		08/01/13 04:43	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		08/01/13 04:43	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/01/13 04:43	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		08/01/13 04:43	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		08/01/13 04:43	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		08/01/13 04:43	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		08/01/13 04:43	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		08/01/13 04:43	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 04:43	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		08/01/13 04:43	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 04:43	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		08/01/13 04:43	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 04:43	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		08/01/13 04:43	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		08/01/13 04:43	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 04:43	1
Tetrachloroethene	<5.9		5.9	0.91	ug/Kg	☼		08/01/13 04:43	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		08/01/13 04:43	1
trans-1,2-Dichloroethene	<5.9		5.9	0.82	ug/Kg	☼		08/01/13 04:43	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		08/01/13 04:43	1
1,1,1-Trichloroethane	<5.9		5.9	0.89	ug/Kg	☼		08/01/13 04:43	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		08/01/13 04:43	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		08/01/13 04:43	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 04:43	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		08/01/13 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*08/01/13 04:43*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*08/01/13 04:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*08/01/13 04:43*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*08/01/13 04:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
1,2-Dichlorobenzene	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2,2'-oxybis[1-chloropropane]	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-3(0.5-1.5)-072413
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-9
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	110	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2,4,6-Trichlorophenol	<380		380	48	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2,4-Dichlorophenol	<380		380	120	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2,4-Dimethylphenol	<380		380	120	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2,4-Dinitrophenol	<770		770	200	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2,4-Dinitrotoluene	<190		190	58	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2,6-Dinitrotoluene	<190		190	45	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2-Chlorophenol	<190		190	55	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2-Methylnaphthalene	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2-Methylphenol	<190		190	51	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2-Nitroaniline	<190		190	69	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
2-Nitrophenol	<380		380	60	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
3 & 4 Methylphenol	<190		190	72	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
3,3'-Dichlorobenzidine	<190		190	32	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
3-Nitroaniline	<380		380	74	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
4,6-Dinitro-2-methylphenol	<380		380	93	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
4-Bromophenyl phenyl ether	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
4-Chloro-3-methylphenol	<380		380	180	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
4-Chloroaniline	<770		770	120	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
4-Chlorophenyl phenyl ether	<190		190	60	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
4-Nitroaniline	<380		380	78	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
4-Nitrophenol	<770		770	210	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Acenaphthene	<38		38	11	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Acenaphthylene	<38		38	8.8	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Anthracene	<38		38	9.0	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Benzo[a]anthracene	**42**		38	8.0	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Benzo[a]pyrene	**43**		38	7.0	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Benzo[b]fluoranthene	**75**		38	7.4	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Benzo[g,h,i]perylene	**49**		38	13	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Benzo[k]fluoranthene	**23**	**J**	38	9.1	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Bis(2-chloroethoxy)methane	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Bis(2-ethylhexyl) phthalate	<190		190	51	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Butyl benzyl phthalate	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Carbazole	<190		190	54	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Chrysene	**55**		38	8.6	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Dibenz(a,h)anthracene	<38		38	11	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Dibenzofuran	<190		190	46	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Diethyl phthalate	<190	*	190	64	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Di-n-butyl phthalate	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Di-n-octyl phthalate	<190		190	77	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Fluoranthene	**83**		38	16	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Fluorene	<38		38	8.7	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Hexachlorobenzene	<77		77	7.5	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Hexachlorobutadiene	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Hexachlorocyclopentadiene	<770		770	180	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Hexachloroethane	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-3(0.5-1.5)-072413
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-9
Matrix: Solid
Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	36	J	38	13	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Isophorone	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Naphthalene	<38		38	7.4	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Nitrobenzene	<38		38	12	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
N-Nitrosodi-n-propylamine	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
N-Nitrosodiphenylamine	<190		190	52	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Pentachlorophenol	<770		770	190	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Phenanthrene	31	J	38	16	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Phenol	<190		190	60	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1
Pyrene	60		38	14	ug/Kg	☼	07/30/13 07:34	08/01/13 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*35 - 137*	*07/30/13 07:34*	*08/01/13 21:53*	*1*
2-Fluorobiphenyl	*68*		*30 - 119*	*07/30/13 07:34*	*08/01/13 21:53*	*1*
2-Fluorophenol	*65*		*30 - 110*	*07/30/13 07:34*	*08/01/13 21:53*	*1*
Nitrobenzene-d5	*67*		*30 - 115*	*07/30/13 07:34*	*08/01/13 21:53*	*1*
Phenol-d5	*70*		*31 - 110*	*07/30/13 07:34*	*08/01/13 21:53*	*1*
Terphenyl-d14	*74*		*36 - 134*	*07/30/13 07:34*	*08/01/13 21:53*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:18	1
Barium	1.0	B	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 01:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 01:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 01:18	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:18	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:18	1
Copper	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:18	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 01:18	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 01:18	1
Manganese	0.52		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:18	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:18	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:18	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:18	1
Zinc	0.56		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.042	J	0.050	0.010	mg/L		07/26/13 12:00	08/02/13 19:54	1
Barium	1.0		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 19:54	1
Beryllium	0.0064		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 19:54	1
Cadmium	0.0042	J	0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 19:54	1
Chromium	0.16		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:54	1
Cobalt	0.036		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 19:54	1
Copper	0.13		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:54	1
Iron	150		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 19:54	1
Lead	0.11		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 19:54	1
Manganese	0.73		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:54	1
Nickel	0.13		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 19:54	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 19:54	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-3(0.5-1.5)-072413
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-9
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	0.0050	mg/L		07/26/13 12:00	08/02/13 19:54	1
Zinc	0.73		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 19:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000	B	12	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Arsenic	7.6		0.58	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Barium	86		0.58	0.062	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Beryllium	0.74		0.23	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Cadmium	0.63		0.12	0.015	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Calcium	18000	B	12	3.1	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Chromium	18		0.58	0.067	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Cobalt	9.4		0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Copper	23		0.58	0.051	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Iron	19000	B	12	4.8	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Lead	23	B	0.29	0.086	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Magnesium	13000	B	5.8	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Manganese	480	B	0.58	0.031	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Nickel	21	B	0.58	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Potassium	2000		29	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Selenium	0.55	J	0.58	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Silver	0.21	J	0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Sodium	1400		58	7.8	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Thallium	0.27	J	0.58	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Vanadium	26		0.29	0.043	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1
Zinc	54	B	1.2	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 04:43	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:54	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		19	8.9	ug/Kg	☼	07/25/13 17:00	07/26/13 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.72		0.200	0.200	SU			08/03/13 13:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-3(0.5-1.5)-072413D
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-10
Matrix: Solid
Percent Solids: 84.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.6	ug/Kg	☼		08/01/13 05:07	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		08/01/13 05:07	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/01/13 05:07	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		08/01/13 05:07	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		08/01/13 05:07	1
Carbon disulfide	<5.9		5.9	0.89	ug/Kg	☼		08/01/13 05:07	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		08/01/13 05:07	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		08/01/13 05:07	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 05:07	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		08/01/13 05:07	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 05:07	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		08/01/13 05:07	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		08/01/13 05:07	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/01/13 05:07	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		08/01/13 05:07	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		08/01/13 05:07	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		08/01/13 05:07	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		08/01/13 05:07	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		08/01/13 05:07	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 05:07	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		08/01/13 05:07	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 05:07	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		08/01/13 05:07	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 05:07	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		08/01/13 05:07	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		08/01/13 05:07	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 05:07	1
Tetrachloroethene	<5.9		5.9	0.91	ug/Kg	☼		08/01/13 05:07	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		08/01/13 05:07	1
trans-1,2-Dichloroethene	<5.9		5.9	0.82	ug/Kg	☼		08/01/13 05:07	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		08/01/13 05:07	1
1,1,1-Trichloroethane	<5.9		5.9	0.89	ug/Kg	☼		08/01/13 05:07	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		08/01/13 05:07	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		08/01/13 05:07	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 05:07	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		08/01/13 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*08/01/13 05:07*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/01/13 05:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*08/01/13 05:07*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*08/01/13 05:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
1,2-Dichlorobenzene	<200		200	43	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
1,3-Dichlorobenzene	<200		200	41	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
1,4-Dichlorobenzene	<200		200	41	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2,2'-oxybis[1-chloropropane]	<200		200	43	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-3(0.5-1.5)-072413D
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-10
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	110	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2,4,6-Trichlorophenol	<390		390	49	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2,4-Dichlorophenol	<390		390	120	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2,4-Dimethylphenol	<390		390	120	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2,4-Dinitrophenol	<790		790	200	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2,4-Dinitrotoluene	<200		200	60	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2,6-Dinitrotoluene	<200		200	47	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2-Chlorophenol	<200		200	56	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2-Methylnaphthalene	<200		200	51	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2-Methylphenol	<200		200	52	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2-Nitroaniline	<200		200	71	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
2-Nitrophenol	<390		390	61	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
3 & 4 Methylphenol	<200		200	74	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
3,3'-Dichlorobenzidine	<200		200	33	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
3-Nitroaniline	<390		390	76	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
4,6-Dinitro-2-methylphenol	<390		390	95	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
4-Bromophenyl phenyl ether	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
4-Chloro-3-methylphenol	<390		390	190	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
4-Chloroaniline	<790		790	120	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
4-Chlorophenyl phenyl ether	<200		200	62	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
4-Nitroaniline	<390		390	80	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
4-Nitrophenol	<790		790	210	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Acenaphthene	<39		39	12	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Acenaphthylene	<39		39	9.0	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Anthracene	<39		39	9.2	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Benzo[a]anthracene	**35**	**J**	39	8.2	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Benzo[a]pyrene	**38**	**J**	39	7.1	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Benzo[b]fluoranthene	**65**		39	7.6	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Benzo[g,h,i]perylene	**16**	**J**	39	13	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Benzo[k]fluoranthene	**20**	**J**	39	9.3	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Bis(2-chloroethoxy)methane	<200		200	43	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Bis(2-ethylhexyl) phthalate	<200		200	52	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Butyl benzyl phthalate	<200		200	49	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Carbazole	<200		200	55	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Chrysene	**47**		39	8.8	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Dibenz(a,h)anthracene	<39		39	11	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Dibenzofuran	<200		200	47	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Diethyl phthalate	<200	*	200	65	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Dimethyl phthalate	<200		200	49	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Di-n-butyl phthalate	<200		200	49	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Di-n-octyl phthalate	<200		200	79	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Fluoranthene	**63**		39	16	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Fluorene	<39		39	8.9	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Hexachlorobenzene	<79		79	7.7	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Hexachlorobutadiene	<200		200	51	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Hexachlorocyclopentadiene	<790		790	180	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Hexachloroethane	<200		200	42	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1

Client Sample ID: LA-3(0.5-1.5)-072413D
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-10
Matrix: Solid
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	40		39	13	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Isophorone	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Naphthalene	<39		39	7.5	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Nitrobenzene	<39		39	12	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
N-Nitrosodi-n-propylamine	<200		200	50	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
N-Nitrosodiphenylamine	<200		200	53	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Pentachlorophenol	<790		790	200	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Phenanthrene	17	J	39	16	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Phenol	<200		200	62	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1
Pyrene	44		39	14	ug/Kg	☼	07/30/13 07:34	08/01/13 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*104*		*35 - 137*	*07/30/13 07:34*	*08/01/13 22:17*	*1*
2-Fluorobiphenyl	*75*		*30 - 119*	*07/30/13 07:34*	*08/01/13 22:17*	*1*
2-Fluorophenol	*66*		*30 - 110*	*07/30/13 07:34*	*08/01/13 22:17*	*1*
Nitrobenzene-d5	*70*		*30 - 115*	*07/30/13 07:34*	*08/01/13 22:17*	*1*
Phenol-d5	*73*		*31 - 110*	*07/30/13 07:34*	*08/01/13 22:17*	*1*
Terphenyl-d14	*78*		*36 - 134*	*07/30/13 07:34*	*08/01/13 22:17*	*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		07/28/13 15:00	08/07/13 01:24	1
Barium	1.2	B	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 01:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 01:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 01:24	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:24	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:24	1
Copper	0.011	J	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:24	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 01:24	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 01:24	1
Manganese	0.38		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:24	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:24	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:24	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:24	1
Zinc	0.74		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 13:16	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		07/26/13 12:00	08/02/13 20:01	1
Barium	0.41	J	0.50	0.010	mg/L		07/26/13 12:00	08/02/13 20:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 20:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 20:01	1
Chromium	0.068		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:01	1
Cobalt	0.015	J	0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 20:01	1
Copper	0.052		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:01	1
Iron	61		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 20:01	1
Lead	0.038		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 20:01	1
Manganese	0.30		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:01	1
Nickel	0.054		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:01	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-3(0.5-1.5)-072413D
Date Collected: 07/24/13 10:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-10
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	0.0050	mg/L		07/26/13 12:00	08/02/13 20:01	1
Zinc	**0.30**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 20:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**	**B**	12	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Arsenic	**6.7**		0.58	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Barium	**86**		0.58	0.062	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Beryllium	**0.69**		0.23	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Cadmium	**0.57**		0.12	0.015	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Calcium	**12000**	**B**	12	3.1	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Chromium	**17**		0.58	0.067	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Cobalt	**8.1**		0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Copper	**25**		0.58	0.051	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Iron	**18000**	**B**	12	4.7	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Lead	**31**	**B**	0.29	0.086	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Magnesium	**8200**	**B**	5.8	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Manganese	**390**	**B**	0.58	0.031	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Nickel	**19**	**B**	0.58	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Potassium	**1600**		29	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Selenium	**0.58**		0.58	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Silver	**0.31**		0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Sodium	**1400**		58	7.7	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Thallium	<0.58		0.58	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Vanadium	**25**		0.29	0.043	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1
Zinc	**54**	**B**	1.2	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 04:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:56	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	**47**		18	8.3	ug/Kg	☼	07/25/13 17:00	07/26/13 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.62**		0.200	0.200	SU			08/03/13 13:17	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-4(0.5-1.5)-072413
Date Collected: 07/24/13 10:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-11
Matrix: Solid
Percent Solids: 88.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.4	ug/Kg	☼		08/01/13 05:30	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		08/01/13 05:30	1
Bromodichloromethane	<5.7		5.7	0.97	ug/Kg	☼		08/01/13 05:30	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/01/13 05:30	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/01/13 05:30	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		08/01/13 05:30	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 05:30	1
Chlorobenzene	<5.7		5.7	0.57	ug/Kg	☼		08/01/13 05:30	1
Chloroethane	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 05:30	1
Chloroform	<5.7		5.7	0.65	ug/Kg	☼		08/01/13 05:30	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 05:30	1
cis-1,2-Dichloroethene	<5.7		5.7	0.80	ug/Kg	☼		08/01/13 05:30	1
cis-1,3-Dichloropropene	<5.7		5.7	0.74	ug/Kg	☼		08/01/13 05:30	1
Dibromochloromethane	<5.7		5.7	0.98	ug/Kg	☼		08/01/13 05:30	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		08/01/13 05:30	1
1,2-Dichloroethane	<5.7		5.7	0.84	ug/Kg	☼		08/01/13 05:30	1
1,1-Dichloroethene	<5.7		5.7	0.91	ug/Kg	☼		08/01/13 05:30	1
1,2-Dichloropropane	<5.7		5.7	0.86	ug/Kg	☼		08/01/13 05:30	1
1,3-Dichloropropene, Total	<5.7		5.7	0.74	ug/Kg	☼		08/01/13 05:30	1
Ethylbenzene	<5.7		5.7	1.1	ug/Kg	☼		08/01/13 05:30	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		08/01/13 05:30	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 05:30	1
Methyl Ethyl Ketone	<5.7		5.7	2.0	ug/Kg	☼		08/01/13 05:30	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 05:30	1
Methyl tert-butyl ether	<5.7		5.7	0.93	ug/Kg	☼		08/01/13 05:30	1
Styrene	<5.7		5.7	0.74	ug/Kg	☼		08/01/13 05:30	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.1	ug/Kg	☼		08/01/13 05:30	1
Tetrachloroethene	<5.7		5.7	0.86	ug/Kg	☼		08/01/13 05:30	1
Toluene	<5.7		5.7	0.79	ug/Kg	☼		08/01/13 05:30	1
trans-1,2-Dichloroethene	<5.7		5.7	0.78	ug/Kg	☼		08/01/13 05:30	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 05:30	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/01/13 05:30	1
1,1,2-Trichloroethane	<5.7		5.7	0.77	ug/Kg	☼		08/01/13 05:30	1
Trichloroethene	<5.7		5.7	0.93	ug/Kg	☼		08/01/13 05:30	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 05:30	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		08/01/13 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*08/01/13 05:30*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*08/01/13 05:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*08/01/13 05:30*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/01/13 05:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
1,2-Dichlorobenzene	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2,2'-oxybis[1-chloropropane]	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-4(0.5-1.5)-072413
Date Collected: 07/24/13 10:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-11
Matrix: Solid
Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2,4,6-Trichlorophenol	<360		360	45	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2,4-Dinitrophenol	<730		730	180	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2,6-Dinitrotoluene	<180		180	43	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2-Methylnaphthalene	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2-Methylphenol	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2-Nitroaniline	<180		180	65	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
3 & 4 Methylphenol	<180		180	68	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
3-Nitroaniline	<360		360	70	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
4,6-Dinitro-2-methylphenol	<360		360	88	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
4-Bromophenyl phenyl ether	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
4-Chloro-3-methylphenol	<360		360	170	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
4-Chloroaniline	<730		730	110	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
4-Chlorophenyl phenyl ether	<180		180	57	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
4-Nitroaniline	<360		360	74	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
4-Nitrophenol	<730		730	190	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Acenaphthene	<36		36	11	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Acenaphthylene	<36		36	8.3	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Anthracene	<36		36	8.5	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Benzo[a]anthracene	**16**	**J**	36	7.6	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Benzo[a]pyrene	**20**	**J**	36	6.6	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Benzo[b]fluoranthene	**35**	**J**	36	7.0	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Benzo[g,h,i]perylene	**35**	**J**	36	12	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Benzo[k]fluoranthene	**14**	**J**	36	8.6	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Bis(2-ethylhexyl) phthalate	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Butyl benzyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Carbazole	<180		180	51	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Chrysene	**35**	**J**	36	8.2	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Dibenz(a,h)anthracene	<36		36	10	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Dibenzofuran	<180		180	43	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Diethyl phthalate	<180	*	180	60	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Di-n-octyl phthalate	<180		180	73	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Fluoranthene	**23**	**J**	36	15	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Fluorene	<36		36	8.2	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Hexachlorobenzene	<73		73	7.1	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Hexachlorobutadiene	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Hexachlorocyclopentadiene	<730		730	170	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Hexachloroethane	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-4(0.5-1.5)-072413
Date Collected: 07/24/13 10:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-11
Matrix: Solid
Percent Solids: 88.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	14	J	36	12	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Isophorone	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Naphthalene	<36		36	7.0	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Nitrobenzene	<36		36	11	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
N-Nitrosodi-n-propylamine	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
N-Nitrosodiphenylamine	<180		180	49	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Pentachlorophenol	<730		730	180	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Phenanthrene	21	J	36	15	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Phenol	<180		180	57	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1
Pyrene	20	J	36	13	ug/Kg	☼	07/30/13 07:34	08/01/13 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*35 - 137*	*07/30/13 07:34*	*08/01/13 22:41*	*1*
2-Fluorobiphenyl	*77*		*30 - 119*	*07/30/13 07:34*	*08/01/13 22:41*	*1*
2-Fluorophenol	*74*		*30 - 110*	*07/30/13 07:34*	*08/01/13 22:41*	*1*
Nitrobenzene-d5	*76*		*30 - 115*	*07/30/13 07:34*	*08/01/13 22:41*	*1*
Phenol-d5	*80*		*31 - 110*	*07/30/13 07:34*	*08/01/13 22:41*	*1*
Terphenyl-d14	*84*		*36 - 134*	*07/30/13 07:34*	*08/01/13 22:41*	*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		07/28/13 15:00	08/07/13 01:31	1
Barium	1.2	B	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 01:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 01:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 01:31	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:31	1
Cobalt	0.0083	J	0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:31	1
Copper	0.011	J	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:31	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 01:31	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 01:31	1
Manganese	1.5		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:31	1
Nickel	0.013	J	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:31	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:31	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:31	1
Zinc	0.88		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 13:21	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		07/26/13 12:00	08/02/13 20:07	1
Barium	0.83		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 20:07	1
Beryllium	0.0073		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 20:07	1
Cadmium	0.0035	J	0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 20:07	1
Chromium	0.16		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:07	1
Cobalt	0.052		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 20:07	1
Copper	0.18		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:07	1
Iron	130		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 20:07	1
Lead	0.076		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 20:07	1
Manganese	0.70		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:07	1
Nickel	0.18		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:07	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:07	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: LA-4(0.5-1.5)-072413
Date Collected: 07/24/13 10:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-11
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	0.0050	mg/L		07/26/13 12:00	08/02/13 20:07	1
Zinc	**0.75**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 20:07	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9200**	**B**	10	0.96	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Arsenic	**7.0**		0.52	0.10	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Barium	**39**		0.52	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Beryllium	**0.55**		0.21	0.018	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Cadmium	**0.74**		0.10	0.013	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Calcium	**51000**	**B**	10	2.8	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Chromium	**15**		0.52	0.060	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Cobalt	**9.7**		0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Copper	**23**		0.52	0.046	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Iron	**18000**	**B**	10	4.3	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Lead	**14**	**B**	0.26	0.077	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Magnesium	**32000**	**B**	5.2	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Manganese	**400**	**B**	0.52	0.028	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Nickel	**23**	**B**	0.52	0.051	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Potassium	**2600**		26	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Silver	**0.036**	**J**	0.26	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Sodium	**1700**		52	7.0	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Thallium	**0.25**	**J**	0.52	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Vanadium	**18**		0.26	0.038	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1
Zinc	**44**	**B**	1.0	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 04:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**	**J**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 11:58	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**		18	8.6	ug/Kg	☼	07/25/13 17:00	07/26/13 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.65**		0.200	0.200	SU			08/03/13 13:20	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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.

500-59744 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich, IL
Lab Project #:
Sampler: T. Walls
Lab PM: Dwight

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	Parameter: SVOCs	Parameter: TCL metals	Parameter: TCLP 8260 metals	Parameter: PH					Comments
1		BS-1(0.5-1.5)-072413	7-24-13	0815	2	S		X	X	X	X	X					
2		WB-1(0.5-1.5)-072413		0825													
3		WB-2(0.5-1.5)-072413		0840													
4		ST-1(0.5-1.5)-072413		0900													
5		VL-1(0.5-1.5)-072413		0910													
6		VL-2(0.5-1.5)-072413		0925													
7		LA-1(0.5-1.5)-072413		0935													
8		LA-2(0.5-1.5)-072413		0955													
9		LA-3(0.5-1.5)-072413		1015													
10		LA-3(0.5-1.5)-072413Dup	7-24-13	1015	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days 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	Weston	7-24-13	1535	Dale Matter	TA	7-24-13	1535
Dale Matter	TA	7-24-13	1732	Shannon Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, 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 #: 500-59744
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT 004
Project Location/State: Lake Zurich/IL
Lab Project #:
Sampler: T. Walls
Lab PM: D. Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LA-4(0.5-1.5)-072413	7-24-13	1040	2	S	X	X	X	X	X					
12		MB-1(0.5-1.5)-072413	↓	1055	↓		↓	↓	↓	↓	↓					
13		MB-2(0.5-1.5)-072413	↓	1105	↓		↓	↓	↓	↓	↓					
14		MB-3(0.5-1.5)-072413	↓	1125	↓		↓	↓	↓	↓	↓					
15		HA-1(0.5-1.5)-072413	↓	1140	↓		↓	↓	↓	↓	↓					
16		SM5-1(0.5-1.5)-072413	↓	1215	↓		↓	↓	↓	↓	↓					
17		SM5-2(0.5-1.5)-072413	↓	1230	↓		↓	↓	↓	↓	↓					
18		SM5-3(0.5-1.5)-072413	↓	1250	↓		↓	↓	↓	↓	↓					
19		SM6-1(0.5-1.5)-072413	↓	1310	↓		↓	↓	↓	↓	↓					
20		SM6-1(0.5-1.5)-072413Dup	7-24-13	1310	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 [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	Weston	7-24-13	1535	[signature]	TA	7-24-13	1535
[signature]	TA	7-24-13	1732	Shane Scott	TA-CHI	7/25/13	0615

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

750 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.184259014 Longitude: -88.089266525

(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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.184259014 Longitude: -88.089266525

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 LF-1 AND LF-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-25. SEE FIGURE 3-2 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: 500-60028-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-25
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	LF-1(0.5-1.5)-072913	LF-2(0.5-1.5)-072913	Soil Reference Concentrations[A]
Sample Date	7/29/2013	7/29/2013	
Location ID	LF-1	LF-2	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.43	8.61	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	9.3 J	ND	900 / 1100 / 1800
Benzo(a)pyrene	17 J	11 J	90 / 1300 / 2100
Benzo(b)fluoranthene	19 J	13 J	900 / 1500 / 2100
Chrysene	13 J	9.5 J	88000
Fluoranthene	18 J	ND	3100000
Pyrene	16 J	ND	2300000
TCL Metals (mg/kg)			
Aluminum, Total	12000 B	9100 B	---
Arsenic, Total	7.9	7.8	11.3 / 13
Barium, Total	68	53	1500
Beryllium, Total	0.72	0.56	22
Cadmium, Total	0.30	0.30	5.2
Calcium, Total	8800 B	50000 B	---
Chromium, Total	17	14	21
Cobalt, Total	14	12	20
Copper, Total	24 B	24 B	2900
Iron, Total	20000	18000	15000 / 15900
Lead, Total	36	57	107
Magnesium, Total	6600 B	21000 B	325000
Manganese, Total	400	450	630
Nickel, Total	29	27	100
Potassium, Total	1600	1600	---
Sodium, Total	1400	1000	---
Thallium, Total	ND	0.25 J	2.6
Vanadium, Total	23	18	550
Zinc, Total	70 B	66 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.65 B	0.66 B	2
Cobalt, TCLP	ND	0.010 J	1
Iron, TCLP	0.56	0.32	5
Manganese, TCLP	0.80	2.8	0.15
Mercury, TCLP	0.000 J	0.000 J	0.002
Nickel, TCLP	ND	0.013 J	0.1
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.027 J	0.05
Barium, SPLP	0.85 B	1.1 B	2
Beryllium, SPLP	ND	0.0042	0.004
Cadmium, SPLP	ND	0.0022 J	0.005
Chromium, SPLP	0.029	0.10	0.1
Cobalt, SPLP	0.0076 J	0.042	1
Copper, SPLP	0.035	0.12	0.65
Iron, SPLP	25	100	5
Lead, SPLP	0.023	0.21	0.0075
Manganese, SPLP	0.19	1.0	0.15
Mercury, SPLP	ND	0.00 J	0.002
Nickel, SPLP	0.030	0.11	0.1
Zinc, SPLP	0.53	0.84	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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-60028-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/13/2013 2:28:21 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: LF-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-5
Matrix: Solid
Percent Solids: 77.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.4		6.4	2.8	ug/Kg	☼		08/07/13 01:50	1
Benzene	<6.4		6.4	0.88	ug/Kg	☼		08/07/13 01:50	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 01:50	1
Bromoform	<6.4		6.4	1.5	ug/Kg	☼		08/07/13 01:50	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	☼		08/07/13 01:50	1
Carbon disulfide	<6.4		6.4	0.96	ug/Kg	☼		08/07/13 01:50	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	☼		08/07/13 01:50	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	☼		08/07/13 01:50	1
Chloroethane	<6.4		6.4	1.7	ug/Kg	☼		08/07/13 01:50	1
Chloroform	<6.4		6.4	0.74	ug/Kg	☼		08/07/13 01:50	1
Chloromethane	<6.4		6.4	1.4	ug/Kg	☼		08/07/13 01:50	1
cis-1,2-Dichloroethene	<6.4		6.4	0.91	ug/Kg	☼		08/07/13 01:50	1
cis-1,3-Dichloropropene	<6.4		6.4	0.84	ug/Kg	☼		08/07/13 01:50	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 01:50	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	☼		08/07/13 01:50	1
1,2-Dichloroethane	<6.4		6.4	0.95	ug/Kg	☼		08/07/13 01:50	1
1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	☼		08/07/13 01:50	1
1,2-Dichloropropane	<6.4		6.4	0.98	ug/Kg	☼		08/07/13 01:50	1
1,3-Dichloropropene, Total	<6.4		6.4	0.84	ug/Kg	☼		08/07/13 01:50	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	☼		08/07/13 01:50	1
2-Hexanone	<6.4		6.4	1.9	ug/Kg	☼		08/07/13 01:50	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	☼		08/07/13 01:50	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		08/07/13 01:50	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	☼		08/07/13 01:50	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 01:50	1
Styrene	<6.4		6.4	0.84	ug/Kg	☼		08/07/13 01:50	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	☼		08/07/13 01:50	1
Tetrachloroethene	<6.4		6.4	0.98	ug/Kg	☼		08/07/13 01:50	1
Toluene	<6.4		6.4	0.90	ug/Kg	☼		08/07/13 01:50	1
trans-1,2-Dichloroethene	<6.4		6.4	0.88	ug/Kg	☼		08/07/13 01:50	1
trans-1,3-Dichloropropene	<6.4		6.4	1.2	ug/Kg	☼		08/07/13 01:50	1
1,1,1-Trichloroethane	<6.4		6.4	0.96	ug/Kg	☼		08/07/13 01:50	1
1,1,2-Trichloroethane	<6.4		6.4	0.88	ug/Kg	☼		08/07/13 01:50	1
Trichloroethene	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 01:50	1
Vinyl chloride	<6.4		6.4	1.4	ug/Kg	☼		08/07/13 01:50	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		08/07/13 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 122*		*08/07/13 01:50*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/07/13 01:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*08/07/13 01:50*	*1*
Toluene-d8 (Surr)	*95*		*75 - 122*		*08/07/13 01:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<210		210	48	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
1,2-Dichlorobenzene	<210		210	46	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
1,3-Dichlorobenzene	<210		210	44	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
1,4-Dichlorobenzene	<210		210	44	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2,2'-oxybis[1-chloropropane]	<210		210	47	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: LF-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-5
Matrix: Solid
Percent Solids: 77.7

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	120	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2,4,6-Trichlorophenol	<420		420	53	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2,4-Dichlorophenol	<420		420	130	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2,4-Dimethylphenol	<420		420	130	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2,4-Dinitrophenol	<850		850	220	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2,4-Dinitrotoluene	<210		210	65	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2,6-Dinitrotoluene	<210		210	50	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2-Chloronaphthalene	<210		210	48	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2-Chlorophenol	<210		210	60	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2-Methylnaphthalene	<210		210	55	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2-Methylphenol	<210		210	56	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2-Nitroaniline	<210		210	76	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
2-Nitrophenol	<420		420	66	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
3 & 4 Methylphenol	<210		210	80	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
3,3'-Dichlorobenzidine	<210		210	35	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
3-Nitroaniline	<420		420	82	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
4,6-Dinitro-2-methylphenol	<420		420	100	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
4-Bromophenyl phenyl ether	<210		210	47	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
4-Chloro-3-methylphenol	<420		420	200	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
4-Chloroaniline	<850		850	130	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
4-Chlorophenyl phenyl ether	<210		210	67	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
4-Nitroaniline	<420		420	87	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
4-Nitrophenol	<850		850	230	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Acenaphthene	<42		42	13	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Acenaphthylene	<42		42	9.7	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Anthracene	<42		42	9.9	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Benzo[a]anthracene	**9.3**	**J**	42	8.9	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Benzo[a]pyrene	**17**	**J**	42	7.7	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Benzo[b]fluoranthene	**19**	**J**	42	8.2	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Benzo[g,h,i]perylene	<42		42	14	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Benzo[k]fluoranthene	<42		42	10	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Bis(2-chloroethoxy)methane	<210		210	47	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Bis(2-chloroethyl)ether	<210		210	63	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Bis(2-ethylhexyl) phthalate	<210		210	56	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Butyl benzyl phthalate	<210		210	53	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Carbazole	<210		210	59	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Chrysene	**13**	**J**	42	9.5	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Dibenz(a,h)anthracene	<42		42	12	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Dibenzofuran	<210		210	51	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Diethyl phthalate	<210		210	71	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Dimethyl phthalate	<210		210	53	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Di-n-butyl phthalate	<210		210	53	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Di-n-octyl phthalate	<210		210	86	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Fluoranthene	**18**	**J**	42	17	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Fluorene	<42		42	9.6	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Hexachlorobenzene	<85		85	8.3	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Hexachlorobutadiene	<210		210	55	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Hexachlorocyclopentadiene	<850		850	200	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Hexachloroethane	<210		210	45	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: LF-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-5
Matrix: Solid
Percent Solids: 77.7

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	<42		42	14	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Isophorone	<210		210	47	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Naphthalene	<42		42	8.1	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Nitrobenzene	<42		42	13	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
N-Nitrosodi-n-propylamine	<210		210	54	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
N-Nitrosodiphenylamine	<210		210	57	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Pentachlorophenol	<850		850	220	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Phenanthrene	<42		42	18	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Phenol	<210		210	67	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1
Pyrene	**16**	**J**	42	15	ug/Kg	☼	08/08/13 07:07	08/12/13 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*35 - 137*	*08/08/13 07:07*	*08/12/13 17:43*	*1*
2-Fluorobiphenyl	*55*		*30 - 119*	*08/08/13 07:07*	*08/12/13 17:43*	*1*
2-Fluorophenol	*46*		*30 - 110*	*08/08/13 07:07*	*08/12/13 17:43*	*1*
Nitrobenzene-d5	*45*		*30 - 115*	*08/08/13 07:07*	*08/12/13 17:43*	*1*
Phenol-d5	*48*		*31 - 110*	*08/08/13 07:07*	*08/12/13 17:43*	*1*
Terphenyl-d14	*82*		*36 - 134*	*08/08/13 07:07*	*08/12/13 17:43*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:28	1
Barium	**0.65**	**B**	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 07:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 07:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 07:28	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:28	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:28	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:28	1
Iron	**0.56**		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 07:28	1
Lead	**0.0064**	**J B**	0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 07:28	1
Manganese	**0.80**		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:28	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:28	1
Zinc	**0.23**	**B**	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 07:28	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		08/07/13 13:30	08/11/13 11:07	1
Barium	**0.85**	**B**	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:07	1
Chromium	**0.029**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:07	1
Cobalt	**0.0076**	**J**	0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:07	1
Copper	**0.035**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:07	1
Iron	**25**		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:07	1
Lead	**0.023**		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:07	1
Manganese	**0.19**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:07	1
Nickel	**0.030**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:07	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:07	1

Client Sample ID: LF-1(0.5-1.5)-072913
Date Collected: 07/29/13 08:25
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-5
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:07	1
Zinc	**0.53**		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:07	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**	**B**	12	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Arsenic	**7.9**		0.62	0.12	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Barium	**68**		0.62	0.066	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Beryllium	**0.72**		0.25	0.022	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Cadmium	**0.30**		0.12	0.016	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Calcium	**8800**	**B**	12	3.3	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Chromium	**17**		0.62	0.071	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Cobalt	**14**		0.31	0.022	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Copper	**24**	**B**	0.62	0.055	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Iron	**20000**		12	5.1	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Lead	**36**		0.31	0.092	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Magnesium	**6600**	**B**	6.2	1.3	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Manganese	**400**		0.62	0.033	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Nickel	**29**		0.62	0.060	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Potassium	**1600**		31	1.9	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Selenium	**0.91**		0.62	0.22	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Sodium	**1400**		62	8.2	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Vanadium	**23**		0.31	0.046	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1
Zinc	**70**	**B**	1.2	0.25	mg/Kg	☼	07/31/13 08:28	08/11/13 13:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**	**J**	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 10:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.049**	**J B**	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:43	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	**33**		20	9.3	ug/Kg	☼	08/02/13 14:30	08/05/13 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.43**		0.200	0.200	SU			08/10/13 11:53	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: LF-2(0.5-1.5)-072913
Date Collected: 07/29/13 08:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-6
Matrix: Solid
Percent Solids: 80.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.3		6.3	2.7	ug/Kg	☼		08/07/13 02:13	1
Benzene	<6.3		6.3	0.86	ug/Kg	☼		08/07/13 02:13	1
Bromodichloromethane	<6.3		6.3	1.1	ug/Kg	☼		08/07/13 02:13	1
Bromoform	<6.3		6.3	1.4	ug/Kg	☼		08/07/13 02:13	1
Bromomethane	<6.3		6.3	1.9	ug/Kg	☼		08/07/13 02:13	1
Carbon disulfide	<6.3		6.3	0.93	ug/Kg	☼		08/07/13 02:13	1
Carbon tetrachloride	<6.3		6.3	1.1	ug/Kg	☼		08/07/13 02:13	1
Chlorobenzene	<6.3		6.3	0.63	ug/Kg	☼		08/07/13 02:13	1
Chloroethane	<6.3		6.3	1.7	ug/Kg	☼		08/07/13 02:13	1
Chloroform	<6.3		6.3	0.72	ug/Kg	☼		08/07/13 02:13	1
Chloromethane	<6.3		6.3	1.3	ug/Kg	☼		08/07/13 02:13	1
cis-1,2-Dichloroethene	<6.3		6.3	0.88	ug/Kg	☼		08/07/13 02:13	1
cis-1,3-Dichloropropene	<6.3		6.3	0.82	ug/Kg	☼		08/07/13 02:13	1
Dibromochloromethane	<6.3		6.3	1.1	ug/Kg	☼		08/07/13 02:13	1
1,1-Dichloroethane	<6.3		6.3	0.99	ug/Kg	☼		08/07/13 02:13	1
1,2-Dichloroethane	<6.3		6.3	0.93	ug/Kg	☼		08/07/13 02:13	1
1,1-Dichloroethene	<6.3		6.3	1.0	ug/Kg	☼		08/07/13 02:13	1
1,2-Dichloropropane	<6.3		6.3	0.95	ug/Kg	☼		08/07/13 02:13	1
1,3-Dichloropropene, Total	<6.3		6.3	0.82	ug/Kg	☼		08/07/13 02:13	1
Ethylbenzene	<6.3		6.3	1.3	ug/Kg	☼		08/07/13 02:13	1
2-Hexanone	<6.3		6.3	1.8	ug/Kg	☼		08/07/13 02:13	1
Methylene Chloride	<6.3		6.3	1.7	ug/Kg	☼		08/07/13 02:13	1
Methyl Ethyl Ketone	<6.3		6.3	2.3	ug/Kg	☼		08/07/13 02:13	1
methyl isobutyl ketone	<6.3		6.3	1.6	ug/Kg	☼		08/07/13 02:13	1
Methyl tert-butyl ether	<6.3		6.3	1.0	ug/Kg	☼		08/07/13 02:13	1
Styrene	<6.3		6.3	0.82	ug/Kg	☼		08/07/13 02:13	1
1,1,2,2-Tetrachloroethane	<6.3		6.3	1.3	ug/Kg	☼		08/07/13 02:13	1
Tetrachloroethene	<6.3		6.3	0.96	ug/Kg	☼		08/07/13 02:13	1
Toluene	<6.3		6.3	0.88	ug/Kg	☼		08/07/13 02:13	1
trans-1,2-Dichloroethene	<6.3		6.3	0.86	ug/Kg	☼		08/07/13 02:13	1
trans-1,3-Dichloropropene	<6.3		6.3	1.1	ug/Kg	☼		08/07/13 02:13	1
1,1,1-Trichloroethane	<6.3		6.3	0.93	ug/Kg	☼		08/07/13 02:13	1
1,1,2-Trichloroethane	<6.3		6.3	0.85	ug/Kg	☼		08/07/13 02:13	1
Trichloroethene	<6.3		6.3	1.0	ug/Kg	☼		08/07/13 02:13	1
Vinyl chloride	<6.3		6.3	1.3	ug/Kg	☼		08/07/13 02:13	1
Xylenes, Total	<13		13	0.57	ug/Kg	☼		08/07/13 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 122*		*08/07/13 02:13*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*08/07/13 02:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*08/07/13 02:13*	*1*
Toluene-d8 (Surr)	*96*		*75 - 122*		*08/07/13 02:13*	*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	45	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
1,2-Dichlorobenzene	<200		200	44	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
1,3-Dichlorobenzene	<200		200	42	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
1,4-Dichlorobenzene	<200		200	42	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2,2'-oxybis[1-chloropropane]	<200		200	44	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: LF-2(0.5-1.5)-072913
Date Collected: 07/29/13 08:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-6
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400	110	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2,4,6-Trichlorophenol	<400		400	50	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2,4-Dichlorophenol	<400		400	120	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2,4-Dimethylphenol	<400		400	130	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2,4-Dinitrophenol	<810		810	200	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2,4-Dinitrotoluene	<200		200	61	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2,6-Dinitrotoluene	<200		200	48	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2-Chlorophenol	<200		200	57	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2-Methylnaphthalene	<200		200	52	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2-Methylphenol	<200		200	53	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2-Nitroaniline	<200		200	72	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
2-Nitrophenol	<400		400	63	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
3 & 4 Methylphenol	<200		200	76	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
3,3'-Dichlorobenzidine	<200		200	33	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
3-Nitroaniline	<400		400	77	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
4,6-Dinitro-2-methylphenol	<400		400	97	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
4-Bromophenyl phenyl ether	<200		200	45	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
4-Chloro-3-methylphenol	<400		400	190	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
4-Chloroaniline	<810		810	120	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
4-Chlorophenyl phenyl ether	<200		200	63	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
4-Nitroaniline	<400		400	82	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
4-Nitrophenol	<810		810	220	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Acenaphthene	<40		40	12	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Acenaphthylene	<40		40	9.2	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Anthracene	<40		40	9.4	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Benzo[a]anthracene	<40		40	8.4	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Benzo[a]pyrene	**11**	**J**	40	7.3	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Benzo[b]fluoranthene	**13**	**J**	40	7.8	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Benzo[g,h,i]perylene	<40		40	13	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Benzo[k]fluoranthene	<40		40	9.5	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Bis(2-chloroethoxy)methane	<200		200	44	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Bis(2-ethylhexyl) phthalate	<200		200	53	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Butyl benzyl phthalate	<200		200	50	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Carbazole	<200		200	56	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Chrysene	**9.5**	**J**	40	9.0	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Dibenz(a,h)anthracene	<40		40	11	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Dibenzofuran	<200		200	48	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Diethyl phthalate	<200		200	67	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Dimethyl phthalate	<200		200	50	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Di-n-butyl phthalate	<200		200	50	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Di-n-octyl phthalate	<200		200	81	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Fluoranthene	<40		40	16	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Fluorene	<40		40	9.1	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Hexachlorobenzene	<81		81	7.9	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Hexachlorobutadiene	<200		200	52	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Hexachlorocyclopentadiene	<810		810	190	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Hexachloroethane	<200		200	43	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: LF-2(0.5-1.5)-072913
Date Collected: 07/29/13 08:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-6
Matrix: Solid
Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<40		40	13	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Isophorone	<200		200	45	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Naphthalene	<40		40	7.7	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Nitrobenzene	<40		40	12	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
N-Nitrosodi-n-propylamine	<200		200	51	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
N-Nitrosodiphenylamine	<200		200	54	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Pentachlorophenol	<810		810	200	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Phenanthrene	<40		40	17	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Phenol	<200		200	63	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1
Pyrene	<40		40	14	ug/Kg	☼	08/08/13 07:07	08/12/13 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*35 - 137*	*08/08/13 07:07*	*08/12/13 18:01*	*1*
2-Fluorobiphenyl	*55*		*30 - 119*	*08/08/13 07:07*	*08/12/13 18:01*	*1*
2-Fluorophenol	*50*		*30 - 110*	*08/08/13 07:07*	*08/12/13 18:01*	*1*
Nitrobenzene-d5	*46*		*30 - 115*	*08/08/13 07:07*	*08/12/13 18:01*	*1*
Phenol-d5	*53*		*31 - 110*	*08/08/13 07:07*	*08/12/13 18:01*	*1*
Terphenyl-d14	*81*		*36 - 134*	*08/08/13 07:07*	*08/12/13 18:01*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:34	1
Barium	**0.66**	**B**	0.50	0.010	mg/L		08/07/13 08:45	08/08/13 07:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 08:45	08/08/13 07:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 08:45	08/08/13 07:34	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:34	1
Cobalt	**0.010**	**J**	0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:34	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:34	1
Iron	**0.32**		0.20	0.20	mg/L		08/07/13 08:45	08/08/13 07:34	1
Lead	**0.0090**	**B**	0.0075	0.0050	mg/L		08/07/13 08:45	08/08/13 07:34	1
Manganese	**2.8**		0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:34	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		08/07/13 08:45	08/08/13 07:34	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 08:45	08/08/13 07:34	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 08:45	08/08/13 07:34	1
Zinc	**0.20**	**B**	0.10	0.020	mg/L		08/07/13 08:45	08/08/13 07:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.027**	**J**	0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:11	1
Barium	**1.1**	**B**	0.50	0.010	mg/L		08/07/13 13:30	08/11/13 11:11	1
Beryllium	**0.0042**		0.0040	0.0040	mg/L		08/07/13 13:30	08/11/13 11:11	1
Cadmium	**0.0022**	**J**	0.0050	0.0020	mg/L		08/07/13 13:30	08/11/13 11:11	1
Chromium	**0.10**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:11	1
Cobalt	**0.042**		0.025	0.0050	mg/L		08/07/13 13:30	08/11/13 11:11	1
Copper	**0.12**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:11	1
Iron	**100**		0.20	0.20	mg/L		08/07/13 13:30	08/11/13 11:11	1
Lead	**0.21**		0.0075	0.0050	mg/L		08/07/13 13:30	08/11/13 11:11	1
Manganese	**1.0**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:11	1
Nickel	**0.11**		0.025	0.010	mg/L		08/07/13 13:30	08/11/13 11:11	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/11/13 11:11	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

Client Sample ID: LF-2(0.5-1.5)-072913
Date Collected: 07/29/13 08:35
Date Received: 07/29/13 15:30

Lab Sample ID: 500-60028-6
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	0.0050	mg/L		08/07/13 13:30	08/11/13 11:11	1
Zinc	0.84		0.10	0.020	mg/L		08/07/13 13:30	08/11/13 11:11	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9100	B	12	1.1	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Arsenic	7.8		0.60	0.12	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Barium	53		0.60	0.064	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Beryllium	0.56		0.24	0.021	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Cadmium	0.30		0.12	0.015	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Calcium	50000	B	120	32	mg/Kg	☼	07/31/13 08:28	08/12/13 13:31	10
Chromium	14		0.60	0.069	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Cobalt	12		0.30	0.021	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Copper	24	B	0.60	0.053	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Iron	18000		12	4.9	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Lead	57		0.30	0.089	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Magnesium	21000	B	6.0	1.2	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Manganese	450		0.60	0.033	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Nickel	27		0.60	0.059	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Potassium	1600		30	1.8	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Selenium	0.63		0.60	0.21	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Sodium	1000		60	8.0	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Thallium	0.25	J	0.60	0.25	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Vanadium	18		0.30	0.044	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1
Zinc	66	B	1.2	0.24	mg/Kg	☼	07/31/13 08:28	08/11/13 13:41	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023	J	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 10:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	J B	0.20	0.020	ug/L		08/07/13 15:15	08/08/13 11:45	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	25		19	9.1	ug/Kg	☼	08/02/13 14:30	08/05/13 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.61		0.200	0.200	SU			08/10/13 11:56	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-60028-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5

Chain of Custody Record

Lab Job #: 500-60028

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 3.6, 3.9

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste 500	Address:	
Address:	Vernon Hills, IL	Address:	Same
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Weston	Cli	500-60028 COC
Project Name	IDOT-004		
Project Location/State	Lake Zurich, 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	TCL metals	TCLP/SPLP metals	pH					Comments
1		SM3-2(0.5-1.5)-072913	7-29-13	0740	2	S		X	X	X	X	X					
2		AH-1(0.5-1.5)-072913		0750													
3		YP-1(0.5-1.5)-072913		0800													
4		YP-2(0.5-1.5)-072913		0810													
5		LF-1(0.5-1.5)-072913		0825													
6		LF-2(0.5-1.5)-072913		0835													
7		PH-1(0.5-1.5)-072913		0845													
8		pH-2(0.5-1.5)-072913		0900													
9		SM2-1(0.5-1.5)-072913		0915													
10		SM2-1(0.5-1.5)-072913Dup	7-29-13	0915	2	S		X	X	X	X	X					

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
T. Walls	Weston	7-29-13	1340		TAC	7-29-13	1340
	TAC	7-29-13	1530	Steve Scott	TA-CHI	7/29/13	1530

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
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-60028
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler: 3.6, 3.9

Client: Weston	Client Project #
Project Name: IDOT-004	
Project Location/State: Lake Zurich / 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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		SM2-2(0.5-1.5)-072913	7-29-13	0935	2	S	X	X	X	X	X					
12		SM2-3(0.5-1.5)-072913	↓	0945	↓	↓	↓	↓	↓	↓	↓					
13		CC-1(0.5-1.5)-072913	↓	0955	↓	↓	↓	↓	↓	↓	↓					
14		CC-2(0.5-1.5)-072913	↓	1010	↓	↓	↓	↓	↓	↓	↓					
15		CC-3(0.5-1.5)-072913	↓	1025	↓	↓	↓	↓	↓	↓	↓					
16		CC-4(0.5-1.5)-072913	↓	1040	↓	↓	↓	↓	↓	↓	↓					
17		TF-1(0.5-1.5)-072913	↓	1050	↓	↓	↓	↓	↓	↓	↓					
18		TF-2(0.5-1.5)-072913	↓	1105	↓	↓	↓	↓	↓	↓	↓					
19		TF-3(0.5-1.5)-072913	↓	1115	↓	↓	↓	↓	↓	↓	↓					
20		TF-3(0.5-1.5)-072913 Dup	7-29-13	1115	2	S	X	X	X	X	X					

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

Sample Disposal
[ ] Return to Client [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	Weston	7-29-13	1340	[signature]	TA	7-29-13	1340
[signature]	TAL	7-29-13	1530	Sherw Scott	TA-CHI	7/29/13	1530

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
800 block of S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.183144299 (Decimal Degrees) Longitude: -88.086151403 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.183144299 Longitude: -88.086151403

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 MB-1 AND MB-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-28. SEE FIGURE 3-2 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: 500-59744-1.

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 Transporation

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:

Date: 7/15/14

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

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

Summary Table of ISGS Site No. 2664-28
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	MB-1(0.5-1.5)-072413	MB-2(0.5-1.5)-072413	Soil Reference Concentrations[A]
Sample Date	7/24/2013	7/24/2013	
Location ID	MB-1	MB-2	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.47	8.33	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Anthracene	9 J	14 J	1.2E+07
Benzo(a)anthracene	90	150	900 / 1100 / 1800
Benzo(a)pyrene	100	170	90 / 1300 / 2100
Benzo(b)fluoranthene	140	240	900 / 1500 / 2100
Benzo(g,h,i)perylene	66	140	---
Benzo(k)fluoranthene	64	89	9000
Butyl benzyl phthalate	ND	48 J	930000
Chrysene	110	160	88000
Dibenzo(a,h)anthracene	18 J	28 J	90 / 200 / 420
Fluoranthene	180	240	3100000
Indeno(1,2,3-cd)pyrene	65	130	900 / 900 / 1600
Phenanthrene	79	81	---
Pyrene	140	200	2300000
TCL Metals (mg/kg)			
Aluminum, Total	11000 B	3500 B	---
Arsenic, Total	6.2	3.5	11.3 / 13
Barium, Total	66	25	1500
Beryllium, Total	0.63	0.31	22
Cadmium, Total	0.68	0.76	5.2
Calcium, Total	19000 B	96000	---
Chromium, Total	24	10	21
Cobalt, Total	7.9	3.7	20
Copper, Total	19	20	2900
Iron, Total	19000 B	9500 B	15000 / 15900
Lead, Total	18 B	68 B	107
Magnesium, Total	11000 B	48000 B	325000
Manganese, Total	350 B	290 B	630
Mercury, Total	0.07	0.01 J	0.89
Nickel, Total	20 B	9.2 B	100
Potassium, Total	1600	910	---
Sodium, Total	1500	1100	---
Vanadium, Total	29	13	550
Zinc, Total	57 B	45 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	1 B	0.84 B	2
Cadmium, TCLP	ND	0.0021 J	0.005
Cobalt, TCLP	ND	0.012 J	1
Copper, TCLP	ND	0.011 J	0.65
Lead, TCLP	ND	0.013	0.0075
Manganese, TCLP	0.74	1.9	0.15
Nickel, TCLP	ND	0.018 J	0.1
Zinc, TCLP	0.52	0.67	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.054	ND	0.05
Barium, SPLP	0.98	0.53	2
Beryllium, SPLP	0.006	ND	0.004
Cadmium, SPLP	0.0037 J	ND	0.005
Chromium, SPLP	0.15	0.017 J	0.1
Cobalt, SPLP	0.036	ND	1
Copper, SPLP	0.13	0.044	0.65
Iron, SPLP	140	9.3	5
Lead, SPLP	0.098	0.066	0.0075
Manganese, SPLP	0.6	0.18	0.15
Mercury, SPLP	0.00026	ND	0.002
Nickel, SPLP	0.12	0.013 J	0.1
Zinc, SPLP	0.82	0.47	5

Summary Table of ISGS Site No. 2664-28
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59744-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 4:52:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: MB-1(0.5-1.5)-072413
Date Collected: 07/24/13 10:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-12
Matrix: Solid
Percent Solids: 87.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	☼		08/01/13 05:54	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		08/01/13 05:54	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		08/01/13 05:54	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/01/13 05:54	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/01/13 05:54	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		08/01/13 05:54	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 05:54	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		08/01/13 05:54	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		08/01/13 05:54	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		08/01/13 05:54	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 05:54	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		08/01/13 05:54	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 05:54	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 05:54	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		08/01/13 05:54	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/01/13 05:54	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		08/01/13 05:54	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		08/01/13 05:54	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 05:54	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 05:54	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		08/01/13 05:54	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 05:54	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		08/01/13 05:54	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/01/13 05:54	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		08/01/13 05:54	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		08/01/13 05:54	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 05:54	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		08/01/13 05:54	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		08/01/13 05:54	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		08/01/13 05:54	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/01/13 05:54	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		08/01/13 05:54	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		08/01/13 05:54	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		08/01/13 05:54	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/01/13 05:54	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		08/01/13 05:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*08/01/13 05:54*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/01/13 05:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*08/01/13 05:54*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*08/01/13 05:54*	*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	42	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
1,2-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: MB-1(0.5-1.5)-072413
Date Collected: 07/24/13 10:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-12
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2,4,6-Trichlorophenol	<370		370	46	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2-Methylphenol	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2-Nitroaniline	<190		190	66	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
3 & 4 Methylphenol	<190		190	70	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
3-Nitroaniline	<370		370	71	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
4-Bromophenyl phenyl ether	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
4-Chlorophenyl phenyl ether	<190		190	58	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Acenaphthene	<37		37	11	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Acenaphthylene	<37		37	8.5	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Anthracene	**9.0**	**J**	37	8.7	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Benzo[a]anthracene	**90**		37	7.7	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Benzo[a]pyrene	**100**		37	6.7	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Benzo[b]fluoranthene	**140**		37	7.2	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Benzo[g,h,i]perylene	**66**		37	12	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Benzo[k]fluoranthene	**64**		37	8.8	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Butyl benzyl phthalate	<190		190	46	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Carbazole	<190		190	52	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Chrysene	**110**		37	8.3	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Dibenz(a,h)anthracene	**18**	**J**	37	10	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Dibenzofuran	<190		190	44	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Diethyl phthalate	<190	*	190	62	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Dimethyl phthalate	<190		190	46	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Di-n-octyl phthalate	<190		190	75	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Fluoranthene	**180**		37	15	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Fluorene	<37		37	8.4	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Hexachlorobenzene	<74		74	7.3	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Hexachlorobutadiene	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Hexachloroethane	<190		190	39	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1

Client Sample ID: MB-1(0.5-1.5)-072413
Date Collected: 07/24/13 10:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-12
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	65		37	12	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Isophorone	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Naphthalene	<37		37	7.1	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Nitrobenzene	<37		37	11	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Phenanthrene	79		37	15	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Phenol	<190		190	58	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1
Pyrene	140		37	13	ug/Kg	☼	07/30/13 07:34	08/01/13 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*35 - 137*	*07/30/13 07:34*	*08/01/13 23:05*	*1*
2-Fluorobiphenyl	*63*		*30 - 119*	*07/30/13 07:34*	*08/01/13 23:05*	*1*
2-Fluorophenol	*55*		*30 - 110*	*07/30/13 07:34*	*08/01/13 23:05*	*1*
Nitrobenzene-d5	*58*		*30 - 115*	*07/30/13 07:34*	*08/01/13 23:05*	*1*
Phenol-d5	*61*		*31 - 110*	*07/30/13 07:34*	*08/01/13 23:05*	*1*
Terphenyl-d14	*72*		*36 - 134*	*07/30/13 07:34*	*08/01/13 23:05*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:37	1
Barium	1.0	B	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 01:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 01:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 01:37	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:37	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:37	1
Copper	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:37	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 01:37	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 01:37	1
Manganese	0.74		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:37	1
Nickel	<0.025		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:37	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:37	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:37	1
Zinc	0.52		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.054		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:14	1
Barium	0.98		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 20:14	1
Beryllium	0.0060		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 20:14	1
Cadmium	0.0037	J	0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 20:14	1
Chromium	0.15		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:14	1
Cobalt	0.036		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 20:14	1
Copper	0.13		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:14	1
Iron	140		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 20:14	1
Lead	0.098		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 20:14	1
Manganese	0.60		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:14	1
Nickel	0.12		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:14	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: MB-1(0.5-1.5)-072413
Date Collected: 07/24/13 10:55
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-12
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	0.0050	mg/L		07/26/13 12:00	08/02/13 20:14	1
Zinc	**0.82**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 20:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**	**B**	11	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Arsenic	**6.2**		0.57	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Barium	**66**		0.57	0.061	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Beryllium	**0.63**		0.23	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Cadmium	**0.68**		0.11	0.015	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Calcium	**19000**	**B**	11	3.1	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Chromium	**24**		0.57	0.066	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Cobalt	**7.9**		0.29	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Copper	**19**		0.57	0.051	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Iron	**19000**	**B**	11	4.7	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Lead	**18**	**B**	0.29	0.085	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Magnesium	**11000**	**B**	5.7	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Manganese	**350**	**B**	0.57	0.031	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Nickel	**20**	**B**	0.57	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Potassium	**1600**		29	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Selenium	**0.49**	**J**	0.57	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Sodium	**1500**		57	7.7	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Vanadium	**29**		0.29	0.042	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1
Zinc	**57**	**B**	1.1	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 05:08	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.20	0.020	ug/L		07/26/13 15:30	07/29/13 12:04	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	**70**		18	8.5	ug/Kg	☼	07/25/13 17:00	07/26/13 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.47**		0.200	0.200	SU			08/03/13 13:23	1

Client Sample ID: MB-2(0.5-1.5)-072413
Date Collected: 07/24/13 11:05
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-13
Matrix: Solid
Percent Solids: 94.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	☼		08/01/13 06:17	1
Benzene	<5.3		5.3	0.73	ug/Kg	☼		08/01/13 06:17	1
Bromodichloromethane	<5.3		5.3	0.91	ug/Kg	☼		08/01/13 06:17	1
Bromoform	<5.3		5.3	1.2	ug/Kg	☼		08/01/13 06:17	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	☼		08/01/13 06:17	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	☼		08/01/13 06:17	1
Carbon tetrachloride	<5.3		5.3	0.97	ug/Kg	☼		08/01/13 06:17	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	☼		08/01/13 06:17	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	☼		08/01/13 06:17	1
Chloroform	<5.3		5.3	0.61	ug/Kg	☼		08/01/13 06:17	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	☼		08/01/13 06:17	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	☼		08/01/13 06:17	1
cis-1,3-Dichloropropene	<5.3		5.3	0.70	ug/Kg	☼		08/01/13 06:17	1
Dibromochloromethane	<5.3		5.3	0.92	ug/Kg	☼		08/01/13 06:17	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	☼		08/01/13 06:17	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		08/01/13 06:17	1
1,1-Dichloroethene	<5.3		5.3	0.86	ug/Kg	☼		08/01/13 06:17	1
1,2-Dichloropropane	<5.3		5.3	0.81	ug/Kg	☼		08/01/13 06:17	1
1,3-Dichloropropene, Total	<5.3		5.3	0.70	ug/Kg	☼		08/01/13 06:17	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	☼		08/01/13 06:17	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	☼		08/01/13 06:17	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	☼		08/01/13 06:17	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		08/01/13 06:17	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	☼		08/01/13 06:17	1
Methyl tert-butyl ether	<5.3		5.3	0.88	ug/Kg	☼		08/01/13 06:17	1
Styrene	<5.3		5.3	0.70	ug/Kg	☼		08/01/13 06:17	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	☼		08/01/13 06:17	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	☼		08/01/13 06:17	1
Toluene	<5.3		5.3	0.74	ug/Kg	☼		08/01/13 06:17	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	☼		08/01/13 06:17	1
trans-1,3-Dichloropropene	<5.3		5.3	0.95	ug/Kg	☼		08/01/13 06:17	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	☼		08/01/13 06:17	1
1,1,2-Trichloroethane	<5.3		5.3	0.72	ug/Kg	☼		08/01/13 06:17	1
Trichloroethene	<5.3		5.3	0.88	ug/Kg	☼		08/01/13 06:17	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	☼		08/01/13 06:17	1
Xylenes, Total	<11		11	0.48	ug/Kg	☼		08/01/13 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*		*08/01/13 06:17*	*1*
Dibromofluoromethane	*112*		*75 - 120*		*08/01/13 06:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*08/01/13 06:17*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*08/01/13 06:17*	*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	38	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
1,2-Dichlorobenzene	<170		170	37	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
1,3-Dichlorobenzene	<170		170	36	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
1,4-Dichlorobenzene	<170		170	36	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2,2'-oxybis[1-chloropropane]	<170		170	38	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: MB-2(0.5-1.5)-072413
Date Collected: 07/24/13 11:05
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-13
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<340		340	97	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2,4,6-Trichlorophenol	<340		340	43	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2,4-Dichlorophenol	<340		340	100	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2,4-Dimethylphenol	<340		340	110	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2,4-Dinitrophenol	<690		690	170	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2,4-Dinitrotoluene	<170		170	52	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2,6-Dinitrotoluene	<170		170	40	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2-Chloronaphthalene	<170		170	38	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2-Chlorophenol	<170		170	49	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2-Methylnaphthalene	<170		170	44	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2-Methylphenol	<170		170	45	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2-Nitroaniline	<170		170	61	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
2-Nitrophenol	<340		340	53	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
3 & 4 Methylphenol	<170		170	64	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
3,3'-Dichlorobenzidine	<170		170	28	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
3-Nitroaniline	<340		340	66	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
4,6-Dinitro-2-methylphenol	<340		340	82	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
4-Bromophenyl phenyl ether	<170		170	38	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
4-Chloro-3-methylphenol	<340		340	160	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
4-Chloroaniline	<690		690	100	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
4-Chlorophenyl phenyl ether	<170		170	54	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
4-Nitroaniline	<340		340	70	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
4-Nitrophenol	<690		690	180	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Acenaphthene	<34		34	10	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Acenaphthylene	<34		34	7.8	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Anthracene	**14**	**J**	34	8.0	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Benzo[a]anthracene	**150**		34	7.1	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Benzo[a]pyrene	**170**		34	6.2	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Benzo[b]fluoranthene	**240**		34	6.6	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Benzo[g,h,i]perylene	**140**		34	11	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Benzo[k]fluoranthene	**89**		34	8.1	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Bis(2-chloroethoxy)methane	<170		170	38	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Bis(2-chloroethyl)ether	<170		170	50	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Bis(2-ethylhexyl) phthalate	<170		170	45	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Butyl benzyl phthalate	**48**	**J**	170	43	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Carbazole	<170		170	48	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Chrysene	**160**		34	7.7	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Dibenz(a,h)anthracene	**28**	**J**	34	9.5	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Dibenzofuran	<170		170	41	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Diethyl phthalate	<170	*	170	57	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Dimethyl phthalate	<170		170	42	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Di-n-butyl phthalate	<170		170	43	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Di-n-octyl phthalate	<170		170	69	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Fluoranthene	**240**		34	14	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Fluorene	<34		34	7.7	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Hexachlorobenzene	<69		69	6.7	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Hexachlorobutadiene	<170		170	45	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Hexachlorocyclopentadiene	<690		690	160	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Hexachloroethane	<170		170	36	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: MB-2(0.5-1.5)-072413
Date Collected: 07/24/13 11:05
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-13
Matrix: Solid
Percent Solids: 94.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	130		34	11	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Isophorone	<170		170	38	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Naphthalene	<34		34	6.5	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Nitrobenzene	<34		34	11	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
N-Nitrosodi-n-propylamine	<170		170	43	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
N-Nitrosodiphenylamine	<170		170	46	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Pentachlorophenol	<690		690	170	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Phenanthrene	81		34	14	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Phenol	<170		170	54	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1
Pyrene	200		34	12	ug/Kg	☼	07/30/13 07:34	08/01/13 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*35 - 137*	*07/30/13 07:34*	*08/01/13 23:29*	*1*
2-Fluorobiphenyl	*55*		*30 - 119*	*07/30/13 07:34*	*08/01/13 23:29*	*1*
2-Fluorophenol	*52*		*30 - 110*	*07/30/13 07:34*	*08/01/13 23:29*	*1*
Nitrobenzene-d5	*53*		*30 - 115*	*07/30/13 07:34*	*08/01/13 23:29*	*1*
Phenol-d5	*56*		*31 - 110*	*07/30/13 07:34*	*08/01/13 23:29*	*1*
Terphenyl-d14	*66*		*36 - 134*	*07/30/13 07:34*	*08/01/13 23:29*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:43	1
Barium	0.84	B	0.50	0.010	mg/L		07/28/13 15:00	08/07/13 01:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/07/13 01:43	1
Cadmium	0.0021	J	0.0050	0.0020	mg/L		07/28/13 15:00	08/07/13 01:43	1
Chromium	<0.025	^	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:43	1
Cobalt	0.012	J	0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:43	1
Copper	0.011	J	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:43	1
Iron	<0.20		0.20	0.20	mg/L		07/28/13 15:00	08/07/13 01:43	1
Lead	0.013		0.0075	0.0050	mg/L		07/28/13 15:00	08/07/13 01:43	1
Manganese	1.9		0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:43	1
Nickel	0.018	J	0.025	0.010	mg/L		07/28/13 15:00	08/07/13 01:43	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/07/13 01:43	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/07/13 01:43	1
Zinc	0.67		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:20	1
Barium	0.53		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 20:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 20:20	1
Chromium	0.017	J	0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:20	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 20:20	1
Copper	0.044		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:20	1
Iron	9.3		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 20:20	1
Lead	0.066		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 20:20	1
Manganese	0.18		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:20	1
Nickel	0.013	J	0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:20	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:20	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: MB-2(0.5-1.5)-072413
Date Collected: 07/24/13 11:05
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-13
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	0.0050	mg/L		07/26/13 12:00	08/02/13 20:20	1
Zinc	**0.47**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 20:20	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3500**	**B**	9.7	0.89	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Antimony	<0.97		0.97	0.39	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Arsenic	**3.5**		0.49	0.097	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Barium	**25**		0.49	0.052	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Beryllium	**0.31**		0.19	0.017	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Cadmium	**0.76**		0.097	0.012	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Calcium	**96000**		97	26	mg/Kg	☼	07/25/13 12:30	08/06/13 05:20	10
Chromium	**10**		0.49	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Cobalt	**3.7**		0.24	0.017	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Copper	**20**		0.49	0.043	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Iron	**9500**	**B**	9.7	4.0	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Lead	**68**	**B**	0.24	0.072	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Magnesium	**48000**	**B**	4.9	1.0	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Manganese	**290**	**B**	0.49	0.026	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Nickel	**9.2**	**B**	0.49	0.048	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Potassium	**910**		24	1.5	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Selenium	<0.49		0.49	0.17	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Silver	<0.24		0.24	0.018	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Sodium	**1100**		49	6.5	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Thallium	<0.49		0.49	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Vanadium	**13**		0.24	0.036	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1
Zinc	**45**	**B**	0.97	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 05:14	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/26/13 15:30	07/29/13 12:06	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	**10**	**J**	18	8.2	ug/Kg	☼	07/25/13 17:00	07/26/13 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.33**		0.200	0.200	SU			08/03/13 13:26	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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.

500-59744 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich, IL
Lab Project #:
Sampler: T. Walls
Lab PM: Dwight

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	Parameter: SVOCs	Parameter: TCL metals	Parameter: TCLP 8260 metals	Parameter: PH					Comments
1		BS-1(0.5-1.5)-072413	7-24-13	0815	2	S		X	X	X	X	X					
2		WB-1(0.5-1.5)-072413		0825													
3		WB-2(0.5-1.5)-072413		0840													
4		ST-1(0.5-1.5)-072413		0900													
5		VL-1(0.5-1.5)-072413		0910													
6		VL-2(0.5-1.5)-072413		0925													
7		LA-1(0.5-1.5)-072413		0935													
8		LA-2(0.5-1.5)-072413		0955													
9		LA-3(0.5-1.5)-072413		1015													
10		LA-3(0.5-1.5)-072413Dup	7-24-13	1015	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days 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	Weston	7-24-13	1535	Dale Matter	TA	7-24-13	1535
Dale Matter	TA	7-24-13	1732	Shannon Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balusu Kumar
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, 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 #: 500-59744
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT 004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LA-4(0.5-1.5)-072413	7-24-13	1040	2	S	X	X	X	X	X					
12		MB-1(0.5-1.5)-072413	↓	1055	↓		↓	↓	↓	↓	↓					
13		MB-2(0.5-1.5)-072413	↓	1105	↓		↓	↓	↓	↓	↓					
14		MB-3(0.5-1.5)-072413	↓	1125	↓		↓	↓	↓	↓	↓					
15		HA-1(0.5-1.5)-072413	↓	1140	↓		↓	↓	↓	↓	↓					
16		SM5-1(0.5-1.5)-072413	↓	1215	↓		↓	↓	↓	↓	↓					
17		SM5-2(0.5-1.5)-072413	↓	1230	↓		↓	↓	↓	↓	↓					
18		SM5-3(0.5-1.5)-072413	↓	1250	↓		↓	↓	↓	↓	↓					
19		SM6-1(0.5-1.5)-072413	↓	1310	↓		↓	↓	↓	↓	↓					
20		SM6-1(0.5-1.5)-072413Dup	7-24-13	1310	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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	Weston	7-24-13	1535	[signature]	TA	7-24-13	1535
[signature]	TA	7-24-13	1732	Shawn Scott	TA-CHI	7/25/13	0615

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/8/2013

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
884A-H S. Rand Road,

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.186055171 (Decimal Degrees) Longitude: -88.096120227 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.186055171 Longitude: -88.096120227

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION SM3-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-29. SEE FIGURE 3-2 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: 500-59940-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-29
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	SM3-1(0.5-1.5)-072613	SM3-1(0.5-1.5)-072613D	**Soil Reference Concentrations[A]**
Sample Date	7/26/2013	7/26/2013	
Location ID	SM3-1	SM3-1	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.75	8.7	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	14 J	17 J	900 / 1100 / 1800
Benzo(a)pyrene	19 J	20 J	90 / 1300 / 2100
Benzo(b)fluoranthene	34 J	35 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	17 J	15 J	---
Benzo(k)fluoranthene	10 J	11 J	9000
Chrysene	24 J	24 J	88000
Fluoranthene	28 J	32 J	3100000
Pyrene	28 J	29 J	2300000
TCL Metals (mg/kg)			
Aluminum, Total	9500 B	8700 B	---
Arsenic, Total	5.9	8.5	11.3 / 13
Barium, Total	59 B	53 B	1500
Beryllium, Total	0.56	0.53	22
Cadmium, Total	0.58 B	0.68 B	5.2
Calcium, Total	85000 B	50000 B	---
Chromium, Total	13	13	21
Cobalt, Total	6.7	8.1	20
Copper, Total	26 B	26 B	2900
Iron, Total	14000 B	20000 B	15000 / 15900
Lead, Total	17 B	20 B	107
Magnesium, Total	45000 B	34000 B	325000
Manganese, Total	290 B	480 B	630
Mercury, Total	0.032	0.036	0.89
Nickel, Total	20 B	21 B	100
Potassium, Total	1600 B	1700 B	---
Sodium, Total	990 B	840 B	---
Vanadium, Total	18 B	19 B	550
Zinc, Total	41 B	48 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.82	0.96	2
Manganese, TCLP	0.084	0.055	0.15
Zinc, TCLP	0.32	0.4	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.024 J	0.03 J	0.05
Barium, SPLP	0.53	0.68	2
Chromium, SPLP	0.067	0.089	0.1
Cobalt, SPLP	0.018 J	0.025	1
Copper, SPLP	0.075	0.1	0.65
Iron, SPLP	62	83	5
Lead, SPLP	0.042	0.062	0.0075
Manganese, SPLP	0.26	0.37	0.15
Mercury, SPLP	0.000093 J	0.00015 J	0.002
Nickel, SPLP	0.062	0.085	0.1
Zinc, SPLP	0.34	0.45	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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59940-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:29:39 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: SM3-1(0.5-1.5)-072613
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-19
Matrix: Solid
Percent Solids: 77.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.4		6.4	2.8	ug/Kg	☼		08/07/13 18:23	1
Benzene	<6.4		6.4	0.88	ug/Kg	☼		08/07/13 18:23	1
Bromodichloromethane	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 18:23	1
Bromoform	<6.4		6.4	1.5	ug/Kg	☼		08/07/13 18:23	1
Bromomethane	<6.4		6.4	1.9	ug/Kg	☼		08/07/13 18:23	1
Carbon disulfide	<6.4		6.4	0.96	ug/Kg	☼		08/07/13 18:23	1
Carbon tetrachloride	<6.4		6.4	1.2	ug/Kg	☼		08/07/13 18:23	1
Chlorobenzene	<6.4		6.4	0.65	ug/Kg	☼		08/07/13 18:23	1
Chloroethane	<6.4		6.4	1.8	ug/Kg	☼		08/07/13 18:23	1
Chloroform	<6.4		6.4	0.74	ug/Kg	☼		08/07/13 18:23	1
Chloromethane	<6.4		6.4	1.4	ug/Kg	☼		08/07/13 18:23	1
cis-1,2-Dichloroethene	<6.4		6.4	0.91	ug/Kg	☼		08/07/13 18:23	1
cis-1,3-Dichloropropene	<6.4		6.4	0.84	ug/Kg	☼		08/07/13 18:23	1
Dibromochloromethane	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 18:23	1
1,1-Dichloroethane	<6.4		6.4	1.0	ug/Kg	☼		08/07/13 18:23	1
1,2-Dichloroethane	<6.4		6.4	0.95	ug/Kg	☼		08/07/13 18:23	1
1,1-Dichloroethene	<6.4		6.4	1.0	ug/Kg	☼		08/07/13 18:23	1
1,2-Dichloropropane	<6.4		6.4	0.98	ug/Kg	☼		08/07/13 18:23	1
1,3-Dichloropropene, Total	<6.4		6.4	0.84	ug/Kg	☼		08/07/13 18:23	1
Ethylbenzene	<6.4		6.4	1.3	ug/Kg	☼		08/07/13 18:23	1
2-Hexanone	<6.4		6.4	1.9	ug/Kg	☼		08/07/13 18:23	1
Methylene Chloride	<6.4		6.4	1.7	ug/Kg	☼		08/07/13 18:23	1
Methyl Ethyl Ketone	<6.4		6.4	2.3	ug/Kg	☼		08/07/13 18:23	1
methyl isobutyl ketone	<6.4		6.4	1.7	ug/Kg	☼		08/07/13 18:23	1
Methyl tert-butyl ether	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 18:23	1
Styrene	<6.4		6.4	0.84	ug/Kg	☼		08/07/13 18:23	1
1,1,2,2-Tetrachloroethane	<6.4		6.4	1.3	ug/Kg	☼		08/07/13 18:23	1
Tetrachloroethene	<6.4		6.4	0.98	ug/Kg	☼		08/07/13 18:23	1
Toluene	<6.4		6.4	0.90	ug/Kg	☼		08/07/13 18:23	1
trans-1,2-Dichloroethene	<6.4		6.4	0.89	ug/Kg	☼		08/07/13 18:23	1
trans-1,3-Dichloropropene	<6.4		6.4	1.2	ug/Kg	☼		08/07/13 18:23	1
1,1,1-Trichloroethane	<6.4		6.4	0.96	ug/Kg	☼		08/07/13 18:23	1
1,1,2-Trichloroethane	<6.4		6.4	0.88	ug/Kg	☼		08/07/13 18:23	1
Trichloroethene	<6.4		6.4	1.1	ug/Kg	☼		08/07/13 18:23	1
Vinyl chloride	<6.4		6.4	1.4	ug/Kg	☼		08/07/13 18:23	1
Xylenes, Total	<13		13	0.58	ug/Kg	☼		08/07/13 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*		*08/07/13 18:23*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/07/13 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*08/07/13 18:23*	*1*
Toluene-d8 (Surr)	*97*		*75 - 122*		*08/07/13 18:23*	*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	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
1,2-Dichlorobenzene	<210		210	46	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
1,3-Dichlorobenzene	<210		210	44	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
1,4-Dichlorobenzene	<210		210	44	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2,2'-oxybis[1-chloropropane]	<210		210	46	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: SM3-1(0.5-1.5)-072613
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-19
Matrix: Solid
Percent Solids: 77.7

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	120	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2,4,6-Trichlorophenol	<420		420	53	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2,4-Dichlorophenol	<420		420	130	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2,4-Dimethylphenol	<420		420	130	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2,4-Dinitrophenol	<840		840	210	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2,4-Dinitrotoluene	<210		210	64	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2,6-Dinitrotoluene	<210		210	50	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2-Chloronaphthalene	<210		210	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2-Chlorophenol	<210		210	60	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2-Methylnaphthalene	<210		210	54	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2-Methylphenol	<210		210	56	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2-Nitroaniline	<210		210	75	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
2-Nitrophenol	<420		420	66	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
3 & 4 Methylphenol	<210		210	79	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
3,3'-Dichlorobenzidine	<210		210	35	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
3-Nitroaniline	<420		420	81	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
4,6-Dinitro-2-methylphenol	<420		420	100	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
4-Bromophenyl phenyl ether	<210		210	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
4-Chloro-3-methylphenol	<420		420	200	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
4-Chloroaniline	<840		840	130	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
4-Chlorophenyl phenyl ether	<210		210	66	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
4-Nitroaniline	<420		420	86	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
4-Nitrophenol	<840		840	230	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Acenaphthene	<42		42	13	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Acenaphthylene	<42		42	9.6	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Anthracene	<42		42	9.8	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Benzo[a]anthracene	**14**	**J**	42	8.8	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Benzo[a]pyrene	**19**	**J**	42	7.6	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Benzo[b]fluoranthene	**34**	**J**	42	8.1	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Benzo[g,h,i]perylene	**17**	**J**	42	14	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Benzo[k]fluoranthene	**10**	**J**	42	10	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Bis(2-chloroethoxy)methane	<210		210	46	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Bis(2-chloroethyl)ether	<210		210	62	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Bis(2-ethylhexyl) phthalate	<210		210	55	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Butyl benzyl phthalate	<210		210	52	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Carbazole	<210		210	59	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Chrysene	**24**	**J**	42	9.4	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Dibenz(a,h)anthracene	<42		42	12	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Dibenzofuran	<210		210	50	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Diethyl phthalate	<210		210	70	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Dimethyl phthalate	<210		210	52	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Di-n-butyl phthalate	<210		210	53	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Di-n-octyl phthalate	<210		210	85	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Fluoranthene	**28**	**J**	42	17	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Fluorene	<42		42	9.5	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Hexachlorobenzene	<84		84	8.2	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Hexachlorobutadiene	<210		210	55	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Hexachlorocyclopentadiene	<840		840	190	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Hexachloroethane	<210		210	45	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1

Client Sample ID: SM3-1(0.5-1.5)-072613
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-19
Matrix: Solid
Percent Solids: 77.7

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	<42		42	14	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Isophorone	<210		210	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Naphthalene	<42		42	8.1	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Nitrobenzene	<42		42	13	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
N-Nitrosodi-n-propylamine	<210		210	53	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
N-Nitrosodiphenylamine	<210		210	57	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Pentachlorophenol	<840		840	210	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Phenanthrene	<42		42	18	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Phenol	<210		210	66	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1
Pyrene	**28**	**J**	42	15	ug/Kg	☼	08/06/13 07:09	08/11/13 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*35 - 137*	*08/06/13 07:09*	*08/11/13 20:25*	*1*
2-Fluorobiphenyl	*67*		*30 - 119*	*08/06/13 07:09*	*08/11/13 20:25*	*1*
2-Fluorophenol	*59*		*30 - 110*	*08/06/13 07:09*	*08/11/13 20:25*	*1*
Nitrobenzene-d5	*57*		*30 - 115*	*08/06/13 07:09*	*08/11/13 20:25*	*1*
Phenol-d5	*70*		*31 - 110*	*08/06/13 07:09*	*08/11/13 20:25*	*1*
Terphenyl-d14	*80*		*36 - 134*	*08/06/13 07:09*	*08/11/13 20:25*	*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		08/05/13 08:25	08/10/13 14:15	1
Barium	**0.82**		0.50	0.010	mg/L		08/05/13 08:25	08/10/13 14:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:25	08/10/13 14:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:25	08/10/13 14:15	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 14:15	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:15	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:25	08/10/13 14:15	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/05/13 08:25	08/10/13 14:15	1
Manganese	**0.084**		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:15	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 14:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 14:15	1
Zinc	**0.32**		0.10	0.020	mg/L		08/05/13 08:25	08/10/13 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.024**	**J**	0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:31	1
Barium	**0.53**		0.50	0.010	mg/L		08/02/13 11:00	08/10/13 17:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 11:00	08/10/13 17:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 11:00	08/10/13 17:31	1
Chromium	**0.067**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:31	1
Cobalt	**0.018**	**J**	0.025	0.0050	mg/L		08/02/13 11:00	08/10/13 17:31	1
Copper	**0.075**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:31	1
Iron	**62**		0.20	0.20	mg/L		08/02/13 11:00	08/10/13 17:31	1
Lead	**0.042**		0.0075	0.0050	mg/L		08/02/13 11:00	08/10/13 17:31	1
Manganese	**0.26**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:31	1
Nickel	**0.062**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:31	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:31	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: SM3-1(0.5-1.5)-072613
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-19
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	0.0050	mg/L		08/02/13 11:00	08/10/13 17:31	1
Zinc	**0.34**		0.10	0.020	mg/L		08/02/13 11:00	08/10/13 17:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9500**	**B**	12	1.1	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Antimony	<1.2		1.2	0.50	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Arsenic	**5.9**		0.62	0.12	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Barium	**59**	**B**	0.62	0.066	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Beryllium	**0.56**		0.25	0.022	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Cadmium	**0.58**	**B**	0.12	0.016	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Calcium	**85000**	**B**	120	33	mg/Kg	☼	07/29/13 14:00	08/12/13 13:23	10
Chromium	**13**		0.62	0.071	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Cobalt	**6.7**		0.31	0.022	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Copper	**26**	**B**	0.62	0.055	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Iron	**14000**	**B**	12	5.1	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Lead	**17**	**B**	0.31	0.092	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Magnesium	**45000**	**B**	6.2	1.3	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Manganese	**290**	**B**	0.62	0.033	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Nickel	**20**	**B**	0.62	0.060	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Potassium	**1600**	**B**	31	1.9	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Selenium	<0.62		0.62	0.22	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Silver	<0.31		0.31	0.022	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Sodium	**990**	**B**	62	8.3	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Thallium	<0.62		0.62	0.26	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Vanadium	**18**	**B**	0.31	0.046	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1
Zinc	**41**	**B**	1.2	0.25	mg/Kg	☼	07/29/13 14:00	08/10/13 10:43	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 11:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.093**	**J**	0.20	0.020	ug/L		08/02/13 16:00	08/05/13 12:04	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**		19	9.1	ug/Kg	☼	08/01/13 14:00	08/02/13 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.75**		0.200	0.200	SU			08/08/13 21:14	1

Client Sample ID: SM3-1(0.5-1.5)-072613D
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-20
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	☼		08/07/13 18:47	1
Benzene	<6.1		6.1	0.84	ug/Kg	☼		08/07/13 18:47	1
Bromodichloromethane	<6.1		6.1	1.1	ug/Kg	☼		08/07/13 18:47	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		08/07/13 18:47	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		08/07/13 18:47	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		08/07/13 18:47	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		08/07/13 18:47	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		08/07/13 18:47	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		08/07/13 18:47	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		08/07/13 18:47	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		08/07/13 18:47	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		08/07/13 18:47	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		08/07/13 18:47	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		08/07/13 18:47	1
1,1-Dichloroethane	<6.1		6.1	0.97	ug/Kg	☼		08/07/13 18:47	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		08/07/13 18:47	1
1,1-Dichloroethene	<6.1		6.1	0.99	ug/Kg	☼		08/07/13 18:47	1
1,2-Dichloropropane	<6.1		6.1	0.93	ug/Kg	☼		08/07/13 18:47	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		08/07/13 18:47	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		08/07/13 18:47	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		08/07/13 18:47	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		08/07/13 18:47	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		08/07/13 18:47	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		08/07/13 18:47	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		08/07/13 18:47	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		08/07/13 18:47	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		08/07/13 18:47	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		08/07/13 18:47	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		08/07/13 18:47	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		08/07/13 18:47	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		08/07/13 18:47	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		08/07/13 18:47	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		08/07/13 18:47	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		08/07/13 18:47	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		08/07/13 18:47	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		08/07/13 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*08/07/13 18:47*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/07/13 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*08/07/13 18:47*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/07/13 18:47*	*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	45	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
1,2-Dichlorobenzene	<200		200	43	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
1,3-Dichlorobenzene	<200		200	41	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
1,4-Dichlorobenzene	<200		200	41	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2,2'-oxybis[1-chloropropane]	<200		200	44	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: SM3-1(0.5-1.5)-072613D
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-20
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	<390		390	110	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2,4,6-Trichlorophenol	<390		390	49	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2,4-Dichlorophenol	<390		390	120	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2,4-Dimethylphenol	<390		390	120	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2,4-Dinitrophenol	<790		790	200	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2,4-Dinitrotoluene	<200		200	60	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2,6-Dinitrotoluene	<200		200	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2-Chlorophenol	<200		200	56	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2-Methylnaphthalene	<200		200	51	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2-Methylphenol	<200		200	52	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2-Nitroaniline	<200		200	71	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
2-Nitrophenol	<390		390	62	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
3 & 4 Methylphenol	<200		200	75	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
3,3'-Dichlorobenzidine	<200		200	33	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
3-Nitroaniline	<390		390	76	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
4,6-Dinitro-2-methylphenol	<390		390	95	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
4-Bromophenyl phenyl ether	<200		200	44	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
4-Chloro-3-methylphenol	<390		390	190	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
4-Chloroaniline	<790		790	120	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
4-Chlorophenyl phenyl ether	<200		200	62	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
4-Nitroaniline	<390		390	81	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
4-Nitrophenol	<790		790	210	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Acenaphthene	<39		39	12	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Acenaphthylene	<39		39	9.0	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Anthracene	<39		39	9.3	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Benzo[a]anthracene	**17**	**J**	39	8.2	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Benzo[a]pyrene	**20**	**J**	39	7.2	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Benzo[b]fluoranthene	**35**	**J**	39	7.6	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Benzo[g,h,i]perylene	**15**	**J**	39	13	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Benzo[k]fluoranthene	**11**	**J**	39	9.4	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Bis(2-chloroethoxy)methane	<200		200	43	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Bis(2-ethylhexyl) phthalate	<200		200	52	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Butyl benzyl phthalate	<200		200	49	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Carbazole	<200		200	55	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Chrysene	**24**	**J**	39	8.9	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Dibenz(a,h)anthracene	<39		39	11	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Dibenzofuran	<200		200	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Diethyl phthalate	<200		200	66	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Dimethyl phthalate	<200		200	49	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Di-n-butyl phthalate	<200		200	50	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Di-n-octyl phthalate	<200		200	80	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Fluoranthene	**32**	**J**	39	16	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Fluorene	<39		39	8.9	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Hexachlorobenzene	<79		79	7.7	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Hexachlorobutadiene	<200		200	52	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Hexachlorocyclopentadiene	<790		790	180	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Hexachloroethane	<200		200	42	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1

Client Sample ID: SM3-1(0.5-1.5)-072613D
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-20
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	<39		39	13	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Isophorone	<200		200	44	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Naphthalene	<39		39	7.6	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Nitrobenzene	<39		39	12	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
N-Nitrosodi-n-propylamine	<200		200	50	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
N-Nitrosodiphenylamine	<200		200	53	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Pentachlorophenol	<790		790	200	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Phenanthrene	<39		39	16	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Phenol	<200		200	62	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1
Pyrene	**29**	**J**	39	14	ug/Kg	☼	08/06/13 07:09	08/11/13 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*35 - 137*	*08/06/13 07:09*	*08/11/13 20:43*	*1*
2-Fluorobiphenyl	*71*		*30 - 119*	*08/06/13 07:09*	*08/11/13 20:43*	*1*
2-Fluorophenol	*60*		*30 - 110*	*08/06/13 07:09*	*08/11/13 20:43*	*1*
Nitrobenzene-d5	*54*		*30 - 115*	*08/06/13 07:09*	*08/11/13 20:43*	*1*
Phenol-d5	*69*		*31 - 110*	*08/06/13 07:09*	*08/11/13 20:43*	*1*
Terphenyl-d14	*91*		*36 - 134*	*08/06/13 07:09*	*08/11/13 20:43*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 14:21	1
Barium	**0.96**		0.50	0.010	mg/L		08/05/13 08:25	08/10/13 14:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:25	08/10/13 14:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:25	08/10/13 14:21	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 14:21	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:21	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:25	08/10/13 14:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/05/13 08:25	08/10/13 14:21	1
Manganese	**0.055**		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:21	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 14:21	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 14:21	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 14:21	1
Zinc	**0.40**		0.10	0.020	mg/L		08/05/13 08:25	08/10/13 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.030**	**J**	0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:38	1
Barium	**0.68**		0.50	0.010	mg/L		08/02/13 11:00	08/10/13 17:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 11:00	08/10/13 17:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 11:00	08/10/13 17:38	1
Chromium	**0.089**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:38	1
Cobalt	**0.025**		0.025	0.0050	mg/L		08/02/13 11:00	08/10/13 17:38	1
Copper	**0.10**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:38	1
Iron	**83**		0.20	0.20	mg/L		08/02/13 11:00	08/10/13 17:38	1
Lead	**0.062**		0.0075	0.0050	mg/L		08/02/13 11:00	08/10/13 17:38	1
Manganese	**0.37**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:38	1
Nickel	**0.085**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:38	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:38	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: SM3-1(0.5-1.5)-072613D
Date Collected: 07/26/13 15:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-20
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	0.0050	mg/L		08/02/13 11:00	08/10/13 17:38	1
Zinc	**0.45**		0.10	0.020	mg/L		08/02/13 11:00	08/10/13 17:38	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8700**	**B**	11	1.0	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Arsenic	**8.5**		0.56	0.11	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Barium	**53**	**B**	0.56	0.060	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Beryllium	**0.53**		0.22	0.020	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Cadmium	**0.68**	**B**	0.11	0.014	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Calcium	**50000**	**B**	11	3.0	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Chromium	**13**		0.56	0.065	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Cobalt	**8.1**		0.28	0.020	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Copper	**26**	**B**	0.56	0.049	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Iron	**20000**	**B**	11	4.6	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Lead	**20**	**B**	0.28	0.083	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Magnesium	**34000**	**B**	5.6	1.1	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Manganese	**480**	**B**	0.56	0.030	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Nickel	**21**	**B**	0.56	0.055	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Potassium	**1700**	**B**	28	1.7	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Sodium	**840**	**B**	56	7.5	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Thallium	<0.56		0.56	0.24	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Vanadium	**19**	**B**	0.28	0.041	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1
Zinc	**48**	**B**	1.1	0.23	mg/Kg	☼	07/29/13 14:00	08/10/13 10:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**	**J**	0.20	0.020	ug/L		08/02/13 16:00	08/05/13 12:06	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	**36**		20	9.4	ug/Kg	☼	08/01/13 14:00	08/02/13 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.70**		0.200	0.200	SU			08/08/13 21:17	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTA

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

500-59940 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59940

Chain of Custody Number:

Page 3 of 4

Temperature °C of Cooler: 4.3

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	TCL metals	TCLP/SPLP metals	pH	Comments
1		VL2-9(0.5-1.5)-072613	7-26-13	1150	2	S		X	X	X	X	X	
2		MG-1(0.5-1.5)-072613		1205									
3		IB-1(0.5-1.5)-072613		1220									
4		IB-2(0.5-1.5)-072613		1230									
5		IB-3(0.5-1.5)-072613		1240									
6		WD-1(0.5-1.5)-072613		1255									
7		WD-2(0.5-1.5)-072613		1310									
8		WD-3(0.5-1.5)-072613		1325									
9		LH-1(0.5-1.5)-072613		1335									
10		LH-1(0.5-1.5)-072613 Dup	7-26-13	1335	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1	T. Walls	Weston	7-26-13	1535		TA	7-26-13	1535
2		TA	7-26-13	1705		TN	7/26/13	1710
3								

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

8/12/2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, 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 #: 500-59940
Chain of Custody Number:
Page 4 of 4
Temperature °C of Cooler:

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LH-2(0.5-1.5)-072613	7-26-13	1355	2	S	X	X	X	X	X					
12		LH-3(0.5-1.5)-072613	↓	1405	↓	↓	↓	↓	↓	↓	↓					
13		LH-4(0.5-1.5)-072613	↓	1415	↓	↓	↓	↓	↓	↓	↓					
14		AB-1(0.5-1.5)-072613	↓	1425	↓	↓	↓	↓	↓	↓	↓					
15		SM4-1(0.5-1.5)-072613	↓	1435	↓	↓	↓	↓	↓	↓	↓					
16		SM4-2(0.5-1.5)-072613	↓	1445	↓	↓	↓	↓	↓	↓	↓					
17		MO-1(0.5-1.5)-072613	↓	1455	↓	↓	↓	↓	↓	↓	↓					
18		MO-2(0.5-1.5)-072613	↓	1500	↓	↓	↓	↓	↓	↓	↓					
19		SM3-1(0.5-1.5)-072613	↓	1515	↓	↓	↓	↓	↓	↓	↓					
20		SM3-1(0.5-1.5)-072613Dup	7-26-13	1515	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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
T. Walls	Weston	7-26-13	1535	[signature]	TAL	7-26-13	1535
[signature]	TAL	7-26-13	1708	[signature]	TA	7/26/13	1700

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

888 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.183180517 (Decimal Degrees) Longitude: -88.085341868 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.183180517 Longitude: -88.085341868

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 MO-1 AND MO-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-30. SEE FIGURE 3-2 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: 500-59940-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-30
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	MO-1(0.5-1.5)-072613	MO-2(0.5-1.5)-072613	**Soil Reference Concentrations[A]**
Sample Date	7/26/2013	7/26/2013	
Location ID	MO-1	MO-2	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.73	8.54	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Benzo(a)anthracene	22 J	33 J	900 / 1100 / 1800
Benzo(a)pyrene	26 J	34 J	90 / 1300 / 2100
Benzo(b)fluoranthene	51	64	900 / 1500 / 2100
Benzo(g,h,i)perylene	22 J	31 J	---
Benzo(k)fluoranthene	15 J	17 J	9000
Chrysene	38	46	88000
Fluoranthene	48	63	3100000
Indeno(1,2,3-cd)pyrene	17 J	23 J	900 / 900 / 1600
Phenanthrene	17 J	26 J	---
Pyrene	46	64	2300000
TCL Metals (mg/kg)			
Aluminum, Total	13000 B	11000 B	---
Arsenic, Total	6.1	7.6	11.3 / 13
Barium, Total	84 B	57 B	1500
Beryllium, Total	0.79	0.6	22
Cadmium, Total	0.51 B	0.5 B	5.2
Calcium, Total	12000 B	35000 B	---
Chromium, Total	18	15	21
Cobalt, Total	8.4	8.3	20
Copper, Total	28 B	26 B	2900
Iron, Total	19000 B	18000 B	15000 / 15900
Lead, Total	22 B	18 B	107
Magnesium, Total	8000 B	22000 B	325000
Manganese, Total	250 B	380 B	630
Mercury, Total	0.039	0.027	0.89
Nickel, Total	24 B	21 B	100
Potassium, Total	1600 B	1700 B	---
Sodium, Total	1000 B	1500 B	---
Thallium, Total	0.31 J	0.39 J	2.6
Vanadium, Total	25 B	21 B	550
Zinc, Total	54 B	48 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.9	0.72	2
Manganese, TCLP	0.45	0.51	0.15
Zinc, TCLP	0.38	0.3	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.023 J	0.035 J	0.05
Barium, SPLP	0.5	0.67	2
Beryllium, SPLP	ND	0.0047	0.004
Chromium, SPLP	0.076	0.11	0.1
Cobalt, SPLP	0.019 J	0.027	1
Copper, SPLP	0.072	0.1	0.65
Iron, SPLP	68	100	5
Lead, SPLP	0.043	0.073	0.0075
Manganese, SPLP	0.24	0.43	0.15
Mercury, SPLP	0.000091 J	0.00013 J	0.002
Nickel, SPLP	0.065	0.097	0.1
Zinc, SPLP	0.34	0.48	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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59940-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:29:39 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: MO-1(0.5-1.5)-072613
Date Collected: 07/26/13 14:55
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-17
Matrix: Solid
Percent Solids: 87.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	☼		08/07/13 17:36	1
Benzene	<5.7		5.7	0.79	ug/Kg	☼		08/07/13 17:36	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		08/07/13 17:36	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/07/13 17:36	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/07/13 17:36	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		08/07/13 17:36	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/07/13 17:36	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		08/07/13 17:36	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		08/07/13 17:36	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		08/07/13 17:36	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 17:36	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		08/07/13 17:36	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		08/07/13 17:36	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		08/07/13 17:36	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		08/07/13 17:36	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/07/13 17:36	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		08/07/13 17:36	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		08/07/13 17:36	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		08/07/13 17:36	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 17:36	1
2-Hexanone	<5.7		5.7	1.7	ug/Kg	☼		08/07/13 17:36	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		08/07/13 17:36	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		08/07/13 17:36	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/07/13 17:36	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		08/07/13 17:36	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		08/07/13 17:36	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 17:36	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		08/07/13 17:36	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		08/07/13 17:36	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		08/07/13 17:36	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/07/13 17:36	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		08/07/13 17:36	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		08/07/13 17:36	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		08/07/13 17:36	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/07/13 17:36	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		08/07/13 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 122*		*08/07/13 17:36*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*08/07/13 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/07/13 17:36*	*1*
Toluene-d8 (Surr)	*98*		*75 - 122*		*08/07/13 17:36*	*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	☼	08/06/13 07:09	08/11/13 19:49	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
1,4-Dichlorobenzene	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: MO-1(0.5-1.5)-072613
Date Collected: 07/26/13 14:55
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-17
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2,6-Dinitrotoluene	<180		180	44	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2-Methylnaphthalene	<180		180	48	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2-Methylphenol	<180		180	49	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2-Nitroaniline	<180		180	66	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
3,3'-Dichlorobenzidine	<180		180	31	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
3-Nitroaniline	<360		360	71	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
4,6-Dinitro-2-methylphenol	<360		360	89	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
4-Chloro-3-methylphenol	<360		360	180	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
4-Chlorophenyl phenyl ether	<180		180	58	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
4-Nitroaniline	<360		360	75	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Acenaphthene	<36		36	11	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Acenaphthylene	<36		36	8.4	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Anthracene	<36		36	8.6	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Benzo[a]anthracene	**22**	**J**	36	7.7	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Benzo[a]pyrene	**26**	**J**	36	6.7	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Benzo[b]fluoranthene	**51**		36	7.1	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Benzo[g,h,i]perylene	**22**	**J**	36	12	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Benzo[k]fluoranthene	**15**	**J**	36	8.7	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Bis(2-ethylhexyl) phthalate	<180		180	49	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Butyl benzyl phthalate	<180		180	46	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Carbazole	<180		180	52	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Chrysene	**38**		36	8.3	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Dibenz(a,h)anthracene	<36		36	10	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Dibenzofuran	<180		180	44	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Fluoranthene	**48**		36	15	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Fluorene	<36		36	8.3	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Hexachlorobenzene	<74		74	7.2	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Hexachloroethane	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: MO-1(0.5-1.5)-072613
Date Collected: 07/26/13 14:55
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-17
Matrix: Solid
Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	17	J	36	12	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Isophorone	<180		180	41	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Naphthalene	<36		36	7.1	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Nitrobenzene	<36		36	11	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
N-Nitrosodi-n-propylamine	<180		180	47	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
N-Nitrosodiphenylamine	<180		180	50	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Phenanthrene	17	J	36	15	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Phenol	<180		180	58	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1
Pyrene	46		36	13	ug/Kg	☼	08/06/13 07:09	08/11/13 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*35 - 137*	*08/06/13 07:09*	*08/11/13 19:49*	*1*
2-Fluorobiphenyl	*74*		*30 - 119*	*08/06/13 07:09*	*08/11/13 19:49*	*1*
2-Fluorophenol	*62*		*30 - 110*	*08/06/13 07:09*	*08/11/13 19:49*	*1*
Nitrobenzene-d5	*60*		*30 - 115*	*08/06/13 07:09*	*08/11/13 19:49*	*1*
Phenol-d5	*71*		*31 - 110*	*08/06/13 07:09*	*08/11/13 19:49*	*1*
Terphenyl-d14	*101*		*36 - 134*	*08/06/13 07:09*	*08/11/13 19:49*	*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		08/05/13 08:25	08/10/13 13:46	1
Barium	0.90		0.50	0.010	mg/L		08/05/13 08:25	08/10/13 13:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:25	08/10/13 13:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:25	08/10/13 13:46	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:46	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 13:46	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:46	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:25	08/10/13 13:46	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/05/13 08:25	08/10/13 13:46	1
Manganese	0.45		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:46	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:46	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 13:46	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 13:46	1
Zinc	0.38		0.10	0.020	mg/L		08/05/13 08:25	08/10/13 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.023	J	0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:18	1
Barium	0.50		0.50	0.010	mg/L		08/02/13 11:00	08/10/13 17:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 11:00	08/10/13 17:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 11:00	08/10/13 17:18	1
Chromium	0.076		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:18	1
Cobalt	0.019	J	0.025	0.0050	mg/L		08/02/13 11:00	08/10/13 17:18	1
Copper	0.072		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:18	1
Iron	68		0.20	0.20	mg/L		08/02/13 11:00	08/10/13 17:18	1
Lead	0.043		0.0075	0.0050	mg/L		08/02/13 11:00	08/10/13 17:18	1
Manganese	0.24		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:18	1
Nickel	0.065		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:18	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:18	1

Client Sample ID: MO-1(0.5-1.5)-072613
Date Collected: 07/26/13 14:55
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-17
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	0.0050	mg/L		08/02/13 11:00	08/10/13 17:18	1
Zinc	**0.34**		0.10	0.020	mg/L		08/02/13 11:00	08/10/13 17:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**	**B**	11	1.0	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Arsenic	**6.1**		0.55	0.11	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Barium	**84**	**B**	0.55	0.058	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Beryllium	**0.79**		0.22	0.019	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Cadmium	**0.51**	**B**	0.11	0.014	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Calcium	**12000**	**B**	11	3.0	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Chromium	**18**		0.55	0.063	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Cobalt	**8.4**		0.27	0.019	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Copper	**28**	**B**	0.55	0.048	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Iron	**19000**	**B**	11	4.5	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Lead	**22**	**B**	0.27	0.081	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Magnesium	**8000**	**B**	5.5	1.1	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Manganese	**250**	**B**	0.55	0.030	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Nickel	**24**	**B**	0.55	0.054	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Potassium	**1600**	**B**	27	1.6	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Sodium	**1000**	**B**	55	7.3	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Thallium	**0.31**	**J**	0.55	0.23	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Vanadium	**25**	**B**	0.27	0.040	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1
Zinc	**54**	**B**	1.1	0.22	mg/Kg	☼	07/29/13 14:00	08/10/13 10:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.091**	**J**	0.20	0.020	ug/L		08/02/13 16:00	08/05/13 12:00	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**		17	8.0	ug/Kg	☼	08/01/13 14:00	08/02/13 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.73**		0.200	0.200	SU			08/08/13 21:07	1

Client Sample ID: MO-2(0.5-1.5)-072613
Date Collected: 07/26/13 15:00
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-18
Matrix: Solid
Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		08/07/13 17:59	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		08/07/13 17:59	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/07/13 17:59	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/07/13 17:59	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		08/07/13 17:59	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		08/07/13 17:59	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/07/13 17:59	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/07/13 17:59	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/07/13 17:59	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		08/07/13 17:59	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 17:59	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		08/07/13 17:59	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		08/07/13 17:59	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/07/13 17:59	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		08/07/13 17:59	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/07/13 17:59	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		08/07/13 17:59	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		08/07/13 17:59	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		08/07/13 17:59	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 17:59	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/07/13 17:59	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/07/13 17:59	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/07/13 17:59	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/07/13 17:59	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		08/07/13 17:59	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		08/07/13 17:59	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 17:59	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		08/07/13 17:59	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		08/07/13 17:59	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		08/07/13 17:59	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/07/13 17:59	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/07/13 17:59	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		08/07/13 17:59	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		08/07/13 17:59	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/07/13 17:59	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/07/13 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/07/13 17:59*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/07/13 17:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*		*08/07/13 17:59*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*08/07/13 17:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: MO-2(0.5-1.5)-072613
Date Collected: 07/26/13 15:00
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-18
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2,4,6-Trichlorophenol	<370		370	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2,4-Dinitrophenol	<750		750	190	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2-Methylphenol	<190		190	49	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2-Nitroaniline	<190		190	67	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
3 & 4 Methylphenol	<190		190	71	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
3-Nitroaniline	<370		370	72	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
4-Bromophenyl phenyl ether	<190		190	42	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
4-Chloroaniline	<750		750	110	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
4-Chlorophenyl phenyl ether	<190		190	59	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
4-Nitrophenol	<750		750	200	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Acenaphthylene	<37		37	8.6	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Anthracene	<37		37	8.8	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Benzo[a]anthracene	**33**	**J**	37	7.8	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Benzo[a]pyrene	**34**	**J**	37	6.8	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Benzo[b]fluoranthene	**64**		37	7.2	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Benzo[g,h,i]perylene	**31**	**J**	37	13	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Benzo[k]fluoranthene	**17**	**J**	37	8.9	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Butyl benzyl phthalate	<190		190	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Carbazole	<190		190	52	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Chrysene	**46**		37	8.4	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Dibenz(a,h)anthracene	<37		37	10	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Dimethyl phthalate	<190		190	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Di-n-octyl phthalate	<190		190	76	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Fluoranthene	**63**		37	15	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Fluorene	<37		37	8.5	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Hexachlorobenzene	<75		75	7.3	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Hexachlorocyclopentadiene	<750		750	170	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Hexachloroethane	<190		190	40	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1

Client Sample ID: MO-2(0.5-1.5)-072613
Date Collected: 07/26/13 15:00
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-18
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	23	J	37	13	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Isophorone	<190		190	41	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Naphthalene	<37		37	7.2	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Nitrobenzene	<37		37	12	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Pentachlorophenol	<750		750	190	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Phenanthrene	26	J	37	16	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Phenol	<190		190	59	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1
Pyrene	64		37	13	ug/Kg	☼	08/06/13 07:09	08/11/13 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*35 - 137*	*08/06/13 07:09*	*08/11/13 20:07*	*1*
2-Fluorobiphenyl	*73*		*30 - 119*	*08/06/13 07:09*	*08/11/13 20:07*	*1*
2-Fluorophenol	*60*		*30 - 110*	*08/06/13 07:09*	*08/11/13 20:07*	*1*
Nitrobenzene-d5	*56*		*30 - 115*	*08/06/13 07:09*	*08/11/13 20:07*	*1*
Phenol-d5	*68*		*31 - 110*	*08/06/13 07:09*	*08/11/13 20:07*	*1*
Terphenyl-d14	*96*		*36 - 134*	*08/06/13 07:09*	*08/11/13 20:07*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 13:53	1
Barium	0.72		0.50	0.010	mg/L		08/05/13 08:25	08/10/13 13:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:25	08/10/13 13:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:25	08/10/13 13:53	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:53	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 13:53	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:53	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:25	08/10/13 13:53	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/05/13 08:25	08/10/13 13:53	1
Manganese	0.51		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:53	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 13:53	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 13:53	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 13:53	1
Zinc	0.30		0.10	0.020	mg/L		08/05/13 08:25	08/10/13 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.035	J	0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:25	1
Barium	0.67		0.50	0.010	mg/L		08/02/13 11:00	08/10/13 17:25	1
Beryllium	0.0047		0.0040	0.0040	mg/L		08/02/13 11:00	08/10/13 17:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 11:00	08/10/13 17:25	1
Chromium	0.11		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:25	1
Cobalt	0.027		0.025	0.0050	mg/L		08/02/13 11:00	08/10/13 17:25	1
Copper	0.10		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:25	1
Iron	100		0.20	0.20	mg/L		08/02/13 11:00	08/10/13 17:25	1
Lead	0.073		0.0075	0.0050	mg/L		08/02/13 11:00	08/10/13 17:25	1
Manganese	0.43		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:25	1
Nickel	0.097		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 17:25	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 11:00	08/10/13 17:25	1

Client Sample ID: MO-2(0.5-1.5)-072613
Date Collected: 07/26/13 15:00
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-18
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	0.0050	mg/L		08/02/13 11:00	08/10/13 17:25	1
Zinc	**0.48**		0.10	0.020	mg/L		08/02/13 11:00	08/10/13 17:25	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**	**B**	11	1.1	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Arsenic	**7.6**		0.57	0.11	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Barium	**57**	**B**	0.57	0.061	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Beryllium	**0.60**		0.23	0.020	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Cadmium	**0.50**	**B**	0.11	0.015	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Calcium	**35000**	**B**	11	3.1	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Chromium	**15**		0.57	0.066	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Cobalt	**8.3**		0.29	0.020	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Copper	**26**	**B**	0.57	0.051	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Iron	**18000**	**B**	11	4.7	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Lead	**18**	**B**	0.29	0.085	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Magnesium	**22000**	**B**	5.7	1.2	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Manganese	**380**	**B**	0.57	0.031	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Nickel	**21**	**B**	0.57	0.056	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Potassium	**1700**	**B**	29	1.7	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Sodium	**1500**	**B**	57	7.7	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Thallium	**0.39**	**J**	0.57	0.24	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Vanadium	**21**	**B**	0.29	0.042	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1
Zinc	**48**	**B**	1.1	0.23	mg/Kg	☼	07/29/13 14:00	08/10/13 10:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.13**	**J**	0.20	0.020	ug/L		08/02/13 16:00	08/05/13 12:02	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	**27**		17	8.1	ug/Kg	☼	08/01/13 14:00	08/02/13 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.54**		0.200	0.200	SU			08/08/13 21:10	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTA

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

500-59940 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59940

Chain of Custody Number:

Page 3 of 4

Temperature °C of Cooler: 4.3

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	TCL metals	TCLP/SPLP metals	pH	Comments
1		VL2-9(0.5-1.5)-072613	7-26-13	1150	2	S		X	X	X	X	X	
2		MG-1(0.5-1.5)-072613		1205									
3		IB-1(0.5-1.5)-072613		1220									
4		IB-2(0.5-1.5)-072613		1230									
5		IB-3(0.5-1.5)-072613		1240									
6		WD-1(0.5-1.5)-072613		1255									
7		WD-2(0.5-1.5)-072613		1310									
8		WD-3(0.5-1.5)-072613		1325									
9		LH-1(0.5-1.5)-072613		1335									
10		LH-1(0.5-1.5)-072613 Dup	7-26-13	1335	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1	T. Walls	Weston	7-26-13	1535		TA	7-26-13	1535
2		TA	7-26-13	1705		TN	7/26/13	1710
3								

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

8/12/2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, 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 #: 500-59940

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler:

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	PH					Comments
11		LH-2(0.5-1.5)-072613	7-26-13	1355	2	S	X	X	X	X	X					
12		LH-3(0.5-1.5)-072613	↓	1405	↓	↓	↓	↓	↓	↓	↓					
13		LH-4(0.5-1.5)-072613	↓	1415	↓	↓	↓	↓	↓	↓	↓					
14		AB-1(0.5-1.5)-072613	↓	1425	↓	↓	↓	↓	↓	↓	↓					
15		SM4-1(0.5-1.5)-072613	↓	1435	↓	↓	↓	↓	↓	↓	↓					
16		SM4-2(0.5-1.5)-072613	↓	1445	↓	↓	↓	↓	↓	↓	↓					
17		MO-1(0.5-1.5)-072613	↓	1455	↓	↓	↓	↓	↓	↓	↓					
18		MO-2(0.5-1.5)-072613	↓	1500	↓	↓	↓	↓	↓	↓	↓					
19		SM3-1(0.5-1.5)-072613	↓	1515	↓	↓	↓	↓	↓	↓	↓					
20		SM3-1(0.5-1.5)-072613Dup	7-26-13	1515	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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
T. Walls	Weston	7-26-13	1535	[signature]	TAL	7-26-13	1535
[signature]	TAL	7-26-13	1708	[signature]	TA	7/26/13	1700

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

 TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

917-927 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.182643685 (Decimal Degrees) Longitude: -88.084598624 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.182643685 Longitude: -88.084598624

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 SM5-1, SM5-2, AND SM5-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-34. SEE FIGURES 3-2/3-3 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: 500-59744-1.

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 Transporation

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:

7/6/15
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-34
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	SM5-1(0.5-1.5)-072413	SM5-2(0.5-1.5)-072413	SM5-3(0.5-1.5)-072413	Soil Reference Concentrations[A]
Sample Date	7/24/2013	7/24/2013	7/24/2013	
Location ID	SM5-1	SM5-2	SM5-3	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter				
Laboratory pH	8.24	8.09	8	<6.25,.9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Benzo(a)anthracene	45	8.4 J	18 J	900 / 1100 / 1800
Benzo(a)pyrene	57	8.5 J	26 J	90 / 1300 / 2100
Benzo(b)fluoranthene	99	13 J	34 J	900 / 1500 / 2100
Benzo(g,h,i)perylene	58	ND	ND	---
Benzo(k)fluoranthene	28 J	ND	15 J	9000
Chrysene	57	11 J	29 J	88000
Dibenzo(a,h)anthracene	14 J	ND	ND	90 / 200 / 420
Fluoranthene	82	ND	33 J	3100000
Indeno(1,2,3-cd)pyrene	49	ND	15 J	900 / 900 / 1600
Phenanthrene	21 J	ND	ND	---
Pyrene	64	ND	23 J	2300000
TCL Metals (mg/kg)				
Aluminum, Total	6100 B	9000 B	11000 B	---
Arsenic, Total	5.2	12	8.8	11.3 / 13
Barium, Total	38	40	69	1500
Beryllium, Total	0.4	0.6	0.67	22
Cadmium, Total	0.61	0.95	0.88	5.2
Calcium, Total	75000 B	31000 B	12000 B	---
Chromium, Total	8.4	14	16	21
Cobalt, Total	6.1	11	13	20
Copper, Total	18	36	28	2900
Iron, Total	12000 B	22000 B	20000 B	15000 / 15900
Lead, Total	23 B	27 B	52 B	107
Magnesium, Total	38000 B	22000 B	6100 B	325000
Manganese, Total	370 B	420 B	550 B	630
Mercury, Total	0.02	0.038	0.064	0.89
Nickel, Total	12 B	29 B	24 B	100
Potassium, Total	1300	1900	1700	---
Silver, Total	ND	ND	0.034 J	4.4
Sodium, Total	890	320	610	---
Thallium, Total	ND	0.47 J	0.38 J	2.6
Vanadium, Total	15	19	21	550
Zinc, Total	31 B	60 B	67 B	5100
TCLP Metals (mg/l)				
Barium, TCLP	1 B	1.1 B	1.1 B	2
Cadmium, TCLP	0.0028 J	0.0021 J	ND	0.005
Cobalt, TCLP	0.018 J	ND	0.014 J	1
Copper, TCLP	ND	ND	0.013 J	0.65
Iron, TCLP	ND	ND	0.38	5
Lead, TCLP	0.0068 J	ND	0.013	0.0075
Manganese, TCLP	4.6	0.69	4.1	0.15
Nickel, TCLP	0.015 J	ND	ND	0.1
Zinc, TCLP	0.65	0.68	0.87	5
SPLP Metals (mg/l)				
Arsenic, SPLP	ND	ND	0.023 J	0.05
Barium, SPLP	0.45 J	0.49 J	0.7	2
Chromium, SPLP	ND	0.025	0.067	0.1
Cobalt, SPLP	ND	0.0083 J	0.024 J	1
Copper, SPLP	0.016 J	0.038	0.088	0.65
Iron, SPLP	3.4	21	64	5
Lead, SPLP	0.023	0.014	0.097	0.0075
Manganese, SPLP	0.13	0.1	0.33	0.15
Mercury, SPLP	0.000038 J	0.000037 J	0.000085 J	0.002
Nickel, SPLP	ND	0.026	0.072	0.1
Zinc, SPLP	0.33	0.39	0.6	5

Summary Table of ISGS Site No. 2664-34
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.
[A] - Soil reference concentrations
ND - Constituent not detected above the reporting limit.
B - Constituent detected in the blank and investigative sample.
J - Estimated concentration.
Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59744-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 4:52:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: SM5-1(0.5-1.5)-072413
Date Collected: 07/24/13 12:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-16
Matrix: Solid
Percent Solids: 89.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.6		5.6	2.4	ug/Kg	☼		08/01/13 07:27	1
Benzene	<5.6		5.6	0.77	ug/Kg	☼		08/01/13 07:27	1
Bromodichloromethane	<5.6		5.6	0.97	ug/Kg	☼		08/01/13 07:27	1
Bromoform	<5.6		5.6	1.3	ug/Kg	☼		08/01/13 07:27	1
Bromomethane	<5.6		5.6	1.7	ug/Kg	☼		08/01/13 07:27	1
Carbon disulfide	<5.6		5.6	0.84	ug/Kg	☼		08/01/13 07:27	1
Carbon tetrachloride	<5.6		5.6	1.0	ug/Kg	☼		08/01/13 07:27	1
Chlorobenzene	<5.6		5.6	0.57	ug/Kg	☼		08/01/13 07:27	1
Chloroethane	<5.6		5.6	1.5	ug/Kg	☼		08/01/13 07:27	1
Chloroform	<5.6		5.6	0.64	ug/Kg	☼		08/01/13 07:27	1
Chloromethane	<5.6		5.6	1.2	ug/Kg	☼		08/01/13 07:27	1
cis-1,2-Dichloroethene	<5.6		5.6	0.79	ug/Kg	☼		08/01/13 07:27	1
cis-1,3-Dichloropropene	<5.6		5.6	0.74	ug/Kg	☼		08/01/13 07:27	1
Dibromochloromethane	<5.6		5.6	0.98	ug/Kg	☼		08/01/13 07:27	1
1,1-Dichloroethane	<5.6		5.6	0.89	ug/Kg	☼		08/01/13 07:27	1
1,2-Dichloroethane	<5.6		5.6	0.83	ug/Kg	☼		08/01/13 07:27	1
1,1-Dichloroethene	<5.6		5.6	0.91	ug/Kg	☼		08/01/13 07:27	1
1,2-Dichloropropane	<5.6		5.6	0.85	ug/Kg	☼		08/01/13 07:27	1
1,3-Dichloropropene, Total	<5.6		5.6	0.74	ug/Kg	☼		08/01/13 07:27	1
Ethylbenzene	<5.6		5.6	1.1	ug/Kg	☼		08/01/13 07:27	1
2-Hexanone	<5.6		5.6	1.6	ug/Kg	☼		08/01/13 07:27	1
Methylene Chloride	<5.6		5.6	1.5	ug/Kg	☼		08/01/13 07:27	1
Methyl Ethyl Ketone	<5.6		5.6	2.0	ug/Kg	☼		08/01/13 07:27	1
methyl isobutyl ketone	<5.6		5.6	1.5	ug/Kg	☼		08/01/13 07:27	1
Methyl tert-butyl ether	<5.6		5.6	0.93	ug/Kg	☼		08/01/13 07:27	1
Styrene	<5.6		5.6	0.74	ug/Kg	☼		08/01/13 07:27	1
1,1,2,2-Tetrachloroethane	<5.6		5.6	1.1	ug/Kg	☼		08/01/13 07:27	1
Tetrachloroethene	<5.6		5.6	0.86	ug/Kg	☼		08/01/13 07:27	1
Toluene	<5.6		5.6	0.78	ug/Kg	☼		08/01/13 07:27	1
trans-1,2-Dichloroethene	<5.6		5.6	0.77	ug/Kg	☼		08/01/13 07:27	1
trans-1,3-Dichloropropene	<5.6		5.6	1.0	ug/Kg	☼		08/01/13 07:27	1
1,1,1-Trichloroethane	<5.6		5.6	0.84	ug/Kg	☼		08/01/13 07:27	1
1,1,2-Trichloroethane	<5.6		5.6	0.76	ug/Kg	☼		08/01/13 07:27	1
Trichloroethene	<5.6		5.6	0.92	ug/Kg	☼		08/01/13 07:27	1
Vinyl chloride	<5.6		5.6	1.2	ug/Kg	☼		08/01/13 07:27	1
Xylenes, Total	<11		11	0.51	ug/Kg	☼		08/01/13 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 122*		*08/01/13 07:27*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*08/01/13 07:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*		*08/01/13 07:27*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*08/01/13 07:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
1,2-Dichlorobenzene	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
1,3-Dichlorobenzene	<180		180	37	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
1,4-Dichlorobenzene	<180		180	37	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2,2'-oxybis[1-chloropropane]	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM5-1(0.5-1.5)-072413
Date Collected: 07/24/13 12:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-16
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	100	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2,4,6-Trichlorophenol	<350		350	45	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2,4-Dichlorophenol	<350		350	110	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2,4-Dimethylphenol	<350		350	110	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2,4-Dinitrophenol	<720		720	180	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2,4-Dinitrotoluene	<180		180	55	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2,6-Dinitrotoluene	<180		180	42	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2-Chloronaphthalene	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2-Chlorophenol	<180		180	51	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2-Methylnaphthalene	<180		180	46	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2-Methylphenol	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2-Nitroaniline	<180		180	64	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
2-Nitrophenol	<350		350	56	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
3 & 4 Methylphenol	<180		180	67	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
3,3'-Dichlorobenzidine	<180		180	30	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
3-Nitroaniline	<350		350	69	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
4,6-Dinitro-2-methylphenol	<350		350	86	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
4-Bromophenyl phenyl ether	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
4-Chloro-3-methylphenol	<350		350	170	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
4-Chloroaniline	<720		720	110	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
4-Chlorophenyl phenyl ether	<180		180	56	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
4-Nitroaniline	<350		350	73	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
4-Nitrophenol	<720		720	190	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Acenaphthene	<35		35	11	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Acenaphthylene	<35		35	8.2	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Anthracene	<35		35	8.4	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Benzo[a]anthracene	**45**		35	7.5	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Benzo[a]pyrene	**57**		35	6.5	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Benzo[b]fluoranthene	**99**		35	6.9	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Benzo[g,h,i]perylene	**58**		35	12	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Benzo[k]fluoranthene	**28**	**J**	35	8.5	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Bis(2-chloroethoxy)methane	<180		180	39	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Bis(2-chloroethyl)ether	<180		180	53	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Bis(2-ethylhexyl) phthalate	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Butyl benzyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Carbazole	<180		180	50	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Chrysene	**57**		35	8.0	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Dibenz(a,h)anthracene	**14**	**J**	35	10	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Dibenzofuran	<180		180	43	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Diethyl phthalate	<180	*	180	59	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Dimethyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Di-n-butyl phthalate	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Di-n-octyl phthalate	<180		180	72	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Fluoranthene	**82**		35	15	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Fluorene	<35		35	8.1	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Hexachlorobenzene	<72		72	7.0	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Hexachlorobutadiene	<180		180	47	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Hexachlorocyclopentadiene	<720		720	170	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Hexachloroethane	<180		180	38	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM5-1(0.5-1.5)-072413
Date Collected: 07/24/13 12:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-16
Matrix: Solid
Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**49**		35	12	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Isophorone	<180		180	40	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Naphthalene	<35		35	6.9	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Nitrobenzene	<35		35	11	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
N-Nitrosodi-n-propylamine	<180		180	45	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
N-Nitrosodiphenylamine	<180		180	48	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Pentachlorophenol	<720		720	180	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Phenanthrene	**21**	**J**	35	15	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Phenol	<180		180	56	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1
Pyrene	**64**		35	13	ug/Kg	☼	07/30/13 07:34	08/06/13 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*		*35 - 137*	*07/30/13 07:34*	*08/06/13 22:58*	*1*
2-Fluorobiphenyl	*62*		*30 - 119*	*07/30/13 07:34*	*08/06/13 22:58*	*1*
2-Fluorophenol	*55*		*30 - 110*	*07/30/13 07:34*	*08/06/13 22:58*	*1*
Nitrobenzene-d5	*60*		*30 - 115*	*07/30/13 07:34*	*08/06/13 22:58*	*1*
Phenol-d5	*66*		*31 - 110*	*07/30/13 07:34*	*08/06/13 22:58*	*1*
Terphenyl-d14	*68*		*36 - 134*	*07/30/13 07:34*	*08/06/13 22:58*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 13:47	1
Barium	**1.0**	**B**	0.50	0.010	mg/L		08/07/13 13:30	08/08/13 13:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 13:47	1
Cadmium	**0.0028**	**J**	0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 13:47	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 13:47	1
Cobalt	**0.018**	**J**	0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 13:47	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 13:47	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 13:47	1
Lead	**0.0068**	**J**	0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 13:47	1
Manganese	**4.6**		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 13:47	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		08/07/13 13:30	08/08/13 13:47	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 13:47	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 13:47	1
Zinc	**0.65**		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:54	1
Barium	**0.45**	**J**	0.50	0.010	mg/L		07/26/13 12:00	08/02/13 20:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 20:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 20:54	1
Chromium	<0.025		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:54	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 20:54	1
Copper	**0.016**	**J**	0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:54	1
Iron	**3.4**		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 20:54	1
Lead	**0.023**		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 20:54	1
Manganese	**0.13**		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:54	1
Nickel	<0.025		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 20:54	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 20:54	1

Client Sample ID: SM5-1(0.5-1.5)-072413
Date Collected: 07/24/13 12:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-16
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	0.0050	mg/L		07/26/13 12:00	08/02/13 20:54	1
Zinc	**0.33**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 20:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6100**	**B**	11	1.0	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Arsenic	**5.2**		0.55	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Barium	**38**		0.55	0.059	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Beryllium	**0.40**		0.22	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Cadmium	**0.61**		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Calcium	**75000**	**B**	110	30	mg/Kg	☼	07/25/13 12:30	08/06/13 06:12	10
Chromium	**8.4**		0.55	0.064	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Cobalt	**6.1**		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Copper	**18**		0.55	0.049	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Iron	**12000**	**B**	11	4.5	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Lead	**23**	**B**	0.28	0.082	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Magnesium	**38000**	**B**	5.5	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Manganese	**370**	**B**	0.55	0.030	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Nickel	**12**	**B**	0.55	0.054	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Potassium	**1300**		28	1.7	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Sodium	**890**		55	7.4	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Thallium	<0.55		0.55	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Vanadium	**15**		0.28	0.041	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1
Zinc	**31**	**B**	1.1	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 06:06	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**	**J**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 12:12	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	**20**		18	8.3	ug/Kg	☼	07/25/13 17:00	07/26/13 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.24**		0.200	0.200	SU			08/03/13 13:37	1

Client Sample ID: SM5-2(0.5-1.5)-072413
Date Collected: 07/24/13 12:30
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-17
Matrix: Solid
Percent Solids: 86.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		08/01/13 07:50	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		08/01/13 07:50	1
Bromodichloromethane	<5.8		5.8	0.99	ug/Kg	☼		08/01/13 07:50	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/01/13 07:50	1
Bromomethane	<5.8		5.8	1.7	ug/Kg	☼		08/01/13 07:50	1
Carbon disulfide	<5.8		5.8	0.86	ug/Kg	☼		08/01/13 07:50	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/01/13 07:50	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/01/13 07:50	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 07:50	1
Chloroform	<5.8		5.8	0.66	ug/Kg	☼		08/01/13 07:50	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 07:50	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		08/01/13 07:50	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 07:50	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 07:50	1
1,1-Dichloroethane	<5.8		5.8	0.91	ug/Kg	☼		08/01/13 07:50	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/01/13 07:50	1
1,1-Dichloroethene	<5.8		5.8	0.93	ug/Kg	☼		08/01/13 07:50	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		08/01/13 07:50	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 07:50	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 07:50	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/01/13 07:50	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 07:50	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/01/13 07:50	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/01/13 07:50	1
Methyl tert-butyl ether	<5.8		5.8	0.95	ug/Kg	☼		08/01/13 07:50	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 07:50	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 07:50	1
Tetrachloroethene	<5.8		5.8	0.88	ug/Kg	☼		08/01/13 07:50	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		08/01/13 07:50	1
trans-1,2-Dichloroethene	<5.8		5.8	0.79	ug/Kg	☼		08/01/13 07:50	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 07:50	1
1,1,1-Trichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/01/13 07:50	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		08/01/13 07:50	1
Trichloroethene	<5.8		5.8	0.95	ug/Kg	☼		08/01/13 07:50	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 07:50	1
Xylenes, Total	<12		12	0.52	ug/Kg	☼		08/01/13 07:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/01/13 07:50*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*08/01/13 07:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*08/01/13 07:50*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*08/01/13 07:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2,2'-oxybis[1-chloropropane]	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM5-2(0.5-1.5)-072413
Date Collected: 07/24/13 12:30
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-17
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	110	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2,4,6-Trichlorophenol	<380		380	47	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2,4-Dichlorophenol	<380		380	110	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2,4-Dimethylphenol	<380		380	120	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2,4-Dinitrophenol	<760		760	190	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2,4-Dinitrotoluene	<190		190	58	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2,6-Dinitrotoluene	<190		190	45	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2-Chlorophenol	<190		190	54	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2-Methylnaphthalene	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2-Methylphenol	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2-Nitroaniline	<190		190	68	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
2-Nitrophenol	<380		380	59	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
3 & 4 Methylphenol	<190		190	72	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
3-Nitroaniline	<380		380	73	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
4,6-Dinitro-2-methylphenol	<380		380	92	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
4-Bromophenyl phenyl ether	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
4-Chloro-3-methylphenol	<380		380	180	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
4-Chloroaniline	<760		760	110	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
4-Chlorophenyl phenyl ether	<190		190	59	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
4-Nitroaniline	<380		380	77	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
4-Nitrophenol	<760		760	200	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Acenaphthene	<38		38	11	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Acenaphthylene	<38		38	8.7	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Anthracene	<38		38	8.9	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Benzo[a]anthracene	**8.4**	**J**	38	7.9	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Benzo[a]pyrene	**8.5**	**J**	38	6.9	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Benzo[b]fluoranthene	**13**	**J**	38	7.3	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Benzo[g,h,i]perylene	<38		38	13	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Benzo[k]fluoranthene	<38		38	9.0	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Bis(2-chloroethoxy)methane	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Bis(2-ethylhexyl) phthalate	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Butyl benzyl phthalate	<190		190	47	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Carbazole	<190		190	53	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Chrysene	**11**	**J**	38	8.5	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Dibenz(a,h)anthracene	<38		38	11	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Dibenzofuran	<190		190	45	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Diethyl phthalate	<190	*	190	63	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Dimethyl phthalate	<190		190	47	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Di-n-butyl phthalate	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Di-n-octyl phthalate	<190		190	77	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Fluoranthene	<38		38	15	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Fluorene	<38		38	8.6	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Hexachlorobenzene	<76		76	7.4	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Hexachlorocyclopentadiene	<760		760	180	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Hexachloroethane	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM5-2(0.5-1.5)-072413
Date Collected: 07/24/13 12:30
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-17
Matrix: Solid
Percent Solids: 86.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	13	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Isophorone	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Naphthalene	<38		38	7.3	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Nitrobenzene	<38		38	12	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
N-Nitrosodi-n-propylamine	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
N-Nitrosodiphenylamine	<190		190	51	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Pentachlorophenol	<760		760	190	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Phenanthrene	<38		38	16	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Phenol	<190		190	60	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1
Pyrene	<38		38	14	ug/Kg	☼	07/30/13 07:34	08/02/13 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*35 - 137*	*07/30/13 07:34*	*08/02/13 01:03*	*1*
2-Fluorobiphenyl	*64*		*30 - 119*	*07/30/13 07:34*	*08/02/13 01:03*	*1*
2-Fluorophenol	*61*		*30 - 110*	*07/30/13 07:34*	*08/02/13 01:03*	*1*
Nitrobenzene-d5	*63*		*30 - 115*	*07/30/13 07:34*	*08/02/13 01:03*	*1*
Phenol-d5	*68*		*31 - 110*	*07/30/13 07:34*	*08/02/13 01:03*	*1*
Terphenyl-d14	*77*		*36 - 134*	*07/30/13 07:34*	*08/02/13 01:03*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 14:00	1
Barium	**1.1**	**B**	0.50	0.010	mg/L		08/07/13 13:30	08/08/13 14:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 14:00	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 14:00	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:00	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:00	1
Copper	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:00	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 14:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 14:00	1
Manganese	**0.69**		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:00	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 14:00	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:00	1
Zinc	**0.68**		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 21:01	1
Barium	**0.49**	**J**	0.50	0.010	mg/L		07/26/13 12:00	08/02/13 21:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 21:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 21:01	1
Chromium	**0.025**		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:01	1
Cobalt	**0.0083**	**J**	0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 21:01	1
Copper	**0.038**		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:01	1
Iron	**21**		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 21:01	1
Lead	**0.014**		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 21:01	1
Manganese	**0.10**		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:01	1
Nickel	**0.026**		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:01	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 21:01	1

Client Sample ID: SM5-2(0.5-1.5)-072413
Date Collected: 07/24/13 12:30
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-17
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	0.0050	mg/L		07/26/13 12:00	08/02/13 21:01	1
Zinc	**0.39**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 21:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9000**	**B**	11	0.99	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Arsenic	**12**		0.54	0.11	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Barium	**40**		0.54	0.057	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Beryllium	**0.60**		0.21	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Cadmium	**0.95**		0.11	0.014	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Calcium	**31000**	**B**	11	2.9	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Chromium	**14**		0.54	0.062	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Cobalt	**11**		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Copper	**36**		0.54	0.048	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Iron	**22000**	**B**	11	4.4	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Lead	**27**	**B**	0.27	0.080	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Magnesium	**22000**	**B**	5.4	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Manganese	**420**	**B**	0.54	0.029	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Nickel	**29**	**B**	0.54	0.053	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Potassium	**1900**		27	1.6	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Selenium	**0.23**	**J**	0.54	0.19	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Sodium	**320**		54	7.2	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Thallium	**0.47**	**J**	0.54	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Vanadium	**19**		0.27	0.040	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1
Zinc	**60**	**B**	1.1	0.22	mg/Kg	☼	07/25/13 12:30	08/06/13 06:19	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.037**	**J**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 12:14	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	**38**		19	8.7	ug/Kg	☼	07/25/13 17:00	07/26/13 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.09**		0.200	0.200	SU			08/03/13 13:40	1

Client Sample ID: SM5-3(0.5-1.5)-072413
Date Collected: 07/24/13 12:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-18
Matrix: Solid
Percent Solids: 73.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.8		6.8	2.9	ug/Kg	☼		08/01/13 08:13	1
Benzene	<6.8		6.8	0.93	ug/Kg	☼		08/01/13 08:13	1
Bromodichloromethane	<6.8		6.8	1.2	ug/Kg	☼		08/01/13 08:13	1
Bromoform	<6.8		6.8	1.6	ug/Kg	☼		08/01/13 08:13	1
Bromomethane	<6.8		6.8	2.1	ug/Kg	☼		08/01/13 08:13	1
Carbon disulfide	<6.8		6.8	1.0	ug/Kg	☼		08/01/13 08:13	1
Carbon tetrachloride	<6.8		6.8	1.2	ug/Kg	☼		08/01/13 08:13	1
Chlorobenzene	<6.8		6.8	0.69	ug/Kg	☼		08/01/13 08:13	1
Chloroethane	<6.8		6.8	1.8	ug/Kg	☼		08/01/13 08:13	1
Chloroform	<6.8		6.8	0.78	ug/Kg	☼		08/01/13 08:13	1
Chloromethane	<6.8		6.8	1.4	ug/Kg	☼		08/01/13 08:13	1
cis-1,2-Dichloroethene	<6.8		6.8	0.96	ug/Kg	☼		08/01/13 08:13	1
cis-1,3-Dichloropropene	<6.8		6.8	0.89	ug/Kg	☼		08/01/13 08:13	1
Dibromochloromethane	<6.8		6.8	1.2	ug/Kg	☼		08/01/13 08:13	1
1,1-Dichloroethane	<6.8		6.8	1.1	ug/Kg	☼		08/01/13 08:13	1
1,2-Dichloroethane	<6.8		6.8	1.0	ug/Kg	☼		08/01/13 08:13	1
1,1-Dichloroethene	<6.8		6.8	1.1	ug/Kg	☼		08/01/13 08:13	1
1,2-Dichloropropane	<6.8		6.8	1.0	ug/Kg	☼		08/01/13 08:13	1
1,3-Dichloropropene, Total	<6.8		6.8	0.89	ug/Kg	☼		08/01/13 08:13	1
Ethylbenzene	<6.8		6.8	1.4	ug/Kg	☼		08/01/13 08:13	1
2-Hexanone	<6.8		6.8	2.0	ug/Kg	☼		08/01/13 08:13	1
Methylene Chloride	<6.8		6.8	1.8	ug/Kg	☼		08/01/13 08:13	1
Methyl Ethyl Ketone	<6.8		6.8	2.5	ug/Kg	☼		08/01/13 08:13	1
methyl isobutyl ketone	<6.8		6.8	1.8	ug/Kg	☼		08/01/13 08:13	1
Methyl tert-butyl ether	<6.8		6.8	1.1	ug/Kg	☼		08/01/13 08:13	1
Styrene	<6.8		6.8	0.89	ug/Kg	☼		08/01/13 08:13	1
1,1,2,2-Tetrachloroethane	<6.8		6.8	1.4	ug/Kg	☼		08/01/13 08:13	1
Tetrachloroethene	<6.8		6.8	1.0	ug/Kg	☼		08/01/13 08:13	1
Toluene	<6.8		6.8	0.95	ug/Kg	☼		08/01/13 08:13	1
trans-1,2-Dichloroethene	<6.8		6.8	0.93	ug/Kg	☼		08/01/13 08:13	1
trans-1,3-Dichloropropene	<6.8		6.8	1.2	ug/Kg	☼		08/01/13 08:13	1
1,1,1-Trichloroethane	<6.8		6.8	1.0	ug/Kg	☼		08/01/13 08:13	1
1,1,2-Trichloroethane	<6.8		6.8	0.93	ug/Kg	☼		08/01/13 08:13	1
Trichloroethene	<6.8		6.8	1.1	ug/Kg	☼		08/01/13 08:13	1
Vinyl chloride	<6.8		6.8	1.4	ug/Kg	☼		08/01/13 08:13	1
Xylenes, Total	<14		14	0.62	ug/Kg	☼		08/01/13 08:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/01/13 08:13*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*08/01/13 08:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*08/01/13 08:13*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/01/13 08:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<220		220	50	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
1,2-Dichlorobenzene	<220		220	48	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
1,3-Dichlorobenzene	<220		220	46	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
1,4-Dichlorobenzene	<220		220	46	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2,2'-oxybis[1-chloropropane]	<220		220	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM5-3(0.5-1.5)-072413
Date Collected: 07/24/13 12:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-18
Matrix: Solid
Percent Solids: 73.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<440		440	130	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2,4,6-Trichlorophenol	<440		440	55	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2,4-Dichlorophenol	<440		440	130	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2,4-Dimethylphenol	<440		440	140	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2,4-Dinitrophenol	<890		890	230	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2,4-Dinitrotoluene	<220		220	68	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2,6-Dinitrotoluene	<220		220	53	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2-Chloronaphthalene	<220		220	50	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2-Chlorophenol	<220		220	63	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2-Methylnaphthalene	<220		220	57	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2-Methylphenol	<220		220	59	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2-Nitroaniline	<220		220	80	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
2-Nitrophenol	<440		440	69	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
3 & 4 Methylphenol	<220		220	84	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
3,3'-Dichlorobenzidine	<220		220	37	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
3-Nitroaniline	<440		440	85	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
4,6-Dinitro-2-methylphenol	<440		440	110	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
4-Bromophenyl phenyl ether	<220		220	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
4-Chloro-3-methylphenol	<440		440	210	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
4-Chloroaniline	<890		890	130	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
4-Chlorophenyl phenyl ether	<220		220	70	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
4-Nitroaniline	<440		440	91	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
4-Nitrophenol	<890		890	240	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Acenaphthene	<44		44	13	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Acenaphthylene	<44		44	10	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Anthracene	<44		44	10	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Benzo[a]anthracene	**18**	**J**	44	9.3	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Benzo[a]pyrene	**26**	**J**	44	8.0	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Benzo[b]fluoranthene	**34**	**J**	44	8.6	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Benzo[g,h,i]perylene	<44		44	15	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Benzo[k]fluoranthene	**15**	**J**	44	11	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Bis(2-chloroethoxy)methane	<220		220	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Bis(2-chloroethyl)ether	<220		220	65	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Bis(2-ethylhexyl) phthalate	<220		220	59	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Butyl benzyl phthalate	<220		220	55	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Carbazole	<220		220	62	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Chrysene	**29**	**J**	44	10	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Dibenz(a,h)anthracene	<44		44	12	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Dibenzofuran	<220		220	53	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Diethyl phthalate	<220	*	220	74	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Dimethyl phthalate	<220		220	55	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Di-n-butyl phthalate	<220		220	56	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Di-n-octyl phthalate	<220		220	90	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Fluoranthene	**33**	**J**	44	18	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Fluorene	<44		44	10	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Hexachlorobenzene	<89		89	8.7	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Hexachlorobutadiene	<220		220	58	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Hexachlorocyclopentadiene	<890		890	200	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Hexachloroethane	<220		220	47	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM5-3(0.5-1.5)-072413
Date Collected: 07/24/13 12:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-18
Matrix: Solid
Percent Solids: 73.6

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	15	J	44	15	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Isophorone	<220		220	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Naphthalene	<44		44	8.5	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Nitrobenzene	<44		44	14	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
N-Nitrosodi-n-propylamine	<220		220	56	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
N-Nitrosodiphenylamine	<220		220	60	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Pentachlorophenol	<890		890	220	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Phenanthrene	<44		44	18	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Phenol	<220		220	70	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1
Pyrene	23	J	44	16	ug/Kg	☼	07/30/13 07:34	08/02/13 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*35 - 137*	*07/30/13 07:34*	*08/02/13 01:27*	*1*
2-Fluorobiphenyl	*64*		*30 - 119*	*07/30/13 07:34*	*08/02/13 01:27*	*1*
2-Fluorophenol	*58*		*30 - 110*	*07/30/13 07:34*	*08/02/13 01:27*	*1*
Nitrobenzene-d5	*59*		*30 - 115*	*07/30/13 07:34*	*08/02/13 01:27*	*1*
Phenol-d5	*63*		*31 - 110*	*07/30/13 07:34*	*08/02/13 01:27*	*1*
Terphenyl-d14	*72*		*36 - 134*	*07/30/13 07:34*	*08/02/13 01:27*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 14:05	1
Barium	1.1	B	0.50	0.010	mg/L		08/07/13 13:30	08/08/13 14:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 14:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 14:05	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:05	1
Cobalt	0.014	J	0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:05	1
Copper	0.013	J	0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:05	1
Iron	0.38		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 14:05	1
Lead	0.013		0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 14:05	1
Manganese	4.1		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:05	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:05	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 14:05	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:05	1
Zinc	0.87		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.023	J	0.050	0.010	mg/L		07/26/13 12:00	08/02/13 21:07	1
Barium	0.70		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 21:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 21:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 21:07	1
Chromium	0.067		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:07	1
Cobalt	0.024	J	0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 21:07	1
Copper	0.088		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:07	1
Iron	64		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 21:07	1
Lead	0.097		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 21:07	1
Manganese	0.33		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:07	1
Nickel	0.072		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:07	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 21:07	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM5-3(0.5-1.5)-072413
Date Collected: 07/24/13 12:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-18
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	0.0050	mg/L		07/26/13 12:00	08/02/13 21:07	1
Zinc	**0.60**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 21:07	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**	**B**	13	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Antimony	<1.3		1.3	0.51	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Arsenic	**8.8**		0.64	0.13	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Barium	**69**		0.64	0.068	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Beryllium	**0.67**		0.25	0.022	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Cadmium	**0.88**		0.13	0.016	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Calcium	**12000**	**B**	13	3.5	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Chromium	**16**		0.64	0.074	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Cobalt	**13**		0.32	0.023	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Copper	**28**		0.64	0.056	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Iron	**20000**	**B**	13	5.2	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Lead	**52**	**B**	0.32	0.095	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Magnesium	**6100**	**B**	6.4	1.3	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Manganese	**550**	**B**	0.64	0.035	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Nickel	**24**	**B**	0.64	0.062	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Potassium	**1700**		32	1.9	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Selenium	**1.3**		0.64	0.23	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Silver	**0.034**	**J**	0.32	0.023	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Sodium	**610**		64	8.5	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Thallium	**0.38**	**J**	0.64	0.27	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Vanadium	**21**		0.32	0.047	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1
Zinc	**67**	**B**	1.3	0.26	mg/Kg	☼	07/25/13 12:30	08/06/13 06:25	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.085**	**J**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 12:16	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	**64**		22	10	ug/Kg	☼	07/25/13 17:00	07/26/13 11:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.00**		0.200	0.200	SU			08/03/13 13:43	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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.

500-59744 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich, IL
Lab Project #:
Sampler: T. Walls
Lab PM: Dwight

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	Parameter: SVOCs	Parameter: TCL metals	Parameter: TCLP 8260 metals	Parameter: PH					Comments
1		BS-1(0.5-1.5)-072413	7-24-13	0815	2	S		X	X	X	X	X					
2		WB-1(0.5-1.5)-072413		0825													
3		WB-2(0.5-1.5)-072413		0840													
4		ST-1(0.5-1.5)-072413		0900													
5		VL-1(0.5-1.5)-072413		0910													
6		VL-2(0.5-1.5)-072413		0925													
7		LA-1(0.5-1.5)-072413		0935													
8		LA-2(0.5-1.5)-072413		0955													
9		LA-3(0.5-1.5)-072413		1015													
10		LA-3(0.5-1.5)-072413Dup	7-24-13	1015	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days 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	Weston	7-24-13	1535	Dale Matter	TA	7-24-13	1535
Dale Matter	TA	7-24-13	1732	Shannon Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: S. Balasubramaniam
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT 004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LA-4(0.5-1.5)-072413	7-24-13	1040	2	S	X	X	X	X	X					
12		MB-1(0.5-1.5)-072413	↓	1055	↓		↓	↓	↓	↓	↓					
13		MB-2(0.5-1.5)-072413	↓	1105	↓		↓	↓	↓	↓	↓					
14		MB-3(0.5-1.5)-072413	↓	1125	↓		↓	↓	↓	↓	↓					
15		HA-1(0.5-1.5)-072413	↓	1140	↓		↓	↓	↓	↓	↓					
16		SM5-1(0.5-1.5)-072413	↓	1215	↓		↓	↓	↓	↓	↓					
17		SM5-2(0.5-1.5)-072413	↓	1230	↓		↓	↓	↓	↓	↓					
18		SM5-3(0.5-1.5)-072413	↓	1250	↓		↓	↓	↓	↓	↓					
19		SM6-1(0.5-1.5)-072413	↓	1310	↓		↓	↓	↓	↓	↓					
20		SM6-1(0.5-1.5)-072413Dup	7-24-13	1310	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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
T. Walls	Weston	7-24-13	1535	[signature]	TA	7-24-13	1535
[signature]	TA	7-24-13	1732	Shawn Scott	TA-CHI	7/25/13	0615

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

935 to 985 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.181555177 (Decimal Degrees) Longitude: -88.082047314 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.181555177 Longitude: -88.082047314

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 SM6-1, SM6-3, AND SM6-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-36. SEE FIGURE 3-3 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: 500-59744-1.
TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-59746-1.

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 Transporation

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:

7/5/24
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-36
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	SM6-1(0.5-1.5)-072413	SM6-1(0.5-1.5)-072413D	SM6-3(0.5-1.5)-072413	SM6-4(0.5-1.5)-072413	Soil Reference Concentrations[A]
Sample Date	7/24/2013	7/24/2013	7/24/2013	7/24/2013	
Location ID	SM6-1	SM6-1	SM6-3	SM6-4	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter					
Laboratory pH	8.37	8.51	8.29	8.32	<6.25,.9.0
VOCs (ug/kg)	None Detected				
SVOCs (ug/kg)					
Anthracene	14 J	10 J	38 R	ND	1.2E+07
Benzo(a)anthracene	160	150	68	8.5 J	900 / 1100 / 1800
Benzo(a)pyrene	200	210	ND	ND	90 / 1300 / 2100
Benzo(b)fluoranthene	250	270	83	ND	900 / 1500 / 2100
Benzo(g,h,i)perylene	140	130	ND	ND	---
Benzo(k)fluoranthene	140	130	79 J+	ND	9000
Chrysene	190	200	91	16 J	88000
Dibenzo(a,h)anthracene	22 J	43	ND	ND	90 / 200 / 420
Fluoranthene	340	330	180 J-	16 J	3100000
Indeno(1,2,3-cd)pyrene	120	130	ND	ND	900 / 900 / 1600
Phenanthrene	120	140	88 J-	ND	---
Pyrene	250	270	120	ND	2300000
TCL Metals (mg/kg)					
Aluminum, Total	9400 B	8900 B	8800 B	9900 B	---
Arsenic, Total	6	6.1	9.1	7.6	11.3 / 13
Barium, Total	56	51	38	38	1500
Beryllium, Total	0.58	0.57	0.64	0.69	22
Cadmium, Total	0.73	0.73	0.76 B	0.79 B	5.2
Calcium, Total	40000 B	40000 B	36000 B	39000 B	---
Chromium, Total	14	15	15	17	21
Cobalt, Total	6.8	7.2	10 B	11 B	20
Copper, Total	22	24	34 B	28 B	2900
Iron, Total	15000 B	15000 B	20000 B	20000 B	15000 / 15900
Lead, Total	50 B	50 B	22 B	15 B	107
Magnesium, Total	22000 B	24000 B	20000 B	24000 B	325000
Manganese, Total	390 B	410 B	400 B	340 B	630
Mercury, Total	0.025	0.028	0.021	0.029	0.89
Nickel, Total	17 B	17 B	27 B	27 B	100
Potassium, Total	2000	1900	1800	2200	---
Sodium, Total	1900	1800	210	230	---
Thallium, Total	ND	0.27 J	0.34 J	0.52 J	2.6
Vanadium, Total	19	19	18	20	550
Zinc, Total	55 B	56 B	60 B	54 B	5100
TCLP Metals (mg/l)					
Barium, TCLP	1.3 B	1 B	0.96	0.91	2
Cadmium, TCLP	0.0025 J	0.0022 J	ND	ND	0.005
Copper, TCLP	0.013 J	0.01 J	ND	ND	0.65
Lead, TCLP	ND	0.0056 J	ND	ND	0.0075
Manganese, TCLP	0.36 J	1.1 J	0.11	0.68	0.15
Nickel, TCLP	ND	ND	0.01 J	ND	0.1
Zinc, TCLP	0.94	0.69	0.59 B	0.6 B	5
SPLP Metals (mg/l)					
Arsenic, SPLP	0.018 J	0.039 J	0.034 J	0.055	0.05
Barium, SPLP	0.63	0.69	0.48 J	0.73	2
Beryllium, SPLP	ND	0.0047	ND	0.0049	0.004
Cadmium, SPLP	ND	0.003 J	ND	0.0024 J	0.005
Chromium, SPLP	0.068	0.1	0.07	0.099	0.1
Cobalt, SPLP	0.021 J	0.032	0.026	0.036	1
Copper, SPLP	0.075	0.11	0.1	0.16	0.65
Iron, SPLP	61	99	77	120	5
Lead, SPLP	0.13	0.15	0.062	0.077	0.0075
Manganese, SPLP	0.59	0.75	0.33	0.43	0.15
Mercury, SPLP	0.000087 J	0.00015 J	ND	ND	0.002
Nickel, SPLP	0.061	0.097	0.093	0.14	0.1
Zinc, SPLP	0.56	0.63	0.4 B	0.61 B	5

Summary Table of ISGS Site No. 2664-36
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J- - Estimated concentration biased low.

J+ - Estimated concentration biased high.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59744-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 4:52:13 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: SM6-1(0.5-1.5)-072413
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-19
Matrix: Solid
Percent Solids: 82.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	☼		08/01/13 11:24	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		08/01/13 11:24	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		08/01/13 11:24	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		08/01/13 11:24	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		08/01/13 11:24	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		08/01/13 11:24	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		08/01/13 11:24	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		08/01/13 11:24	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		08/01/13 11:24	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		08/01/13 11:24	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		08/01/13 11:24	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		08/01/13 11:24	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		08/01/13 11:24	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		08/01/13 11:24	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		08/01/13 11:24	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		08/01/13 11:24	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		08/01/13 11:24	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		08/01/13 11:24	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		08/01/13 11:24	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		08/01/13 11:24	1
2-Hexanone	<6.1		6.1	1.7	ug/Kg	☼		08/01/13 11:24	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		08/01/13 11:24	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		08/01/13 11:24	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		08/01/13 11:24	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		08/01/13 11:24	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		08/01/13 11:24	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		08/01/13 11:24	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		08/01/13 11:24	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		08/01/13 11:24	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		08/01/13 11:24	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		08/01/13 11:24	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		08/01/13 11:24	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		08/01/13 11:24	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		08/01/13 11:24	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		08/01/13 11:24	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		08/01/13 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*08/01/13 11:24*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*08/01/13 11:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*08/01/13 11:24*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/01/13 11:24*	*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	44	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
1,2-Dichlorobenzene	<190		190	42	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2,2'-oxybis[1-chloropropane]	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM6-1(0.5-1.5)-072413
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-19
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	<380		380	110	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2,4,6-Trichlorophenol	<380		380	48	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2,4-Dichlorophenol	<380		380	120	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2,4-Dimethylphenol	<380		380	120	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2,4-Dinitrophenol	<780		780	200	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2,6-Dinitrotoluene	<190		190	46	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2-Chlorophenol	<190		190	55	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2-Methylnaphthalene	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2-Methylphenol	<190		190	51	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2-Nitroaniline	<190		190	69	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
2-Nitrophenol	<380		380	60	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
3 & 4 Methylphenol	<190		190	73	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
3,3'-Dichlorobenzidine	<190		190	32	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
3-Nitroaniline	<380		380	74	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
4,6-Dinitro-2-methylphenol	<380		380	93	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
4-Bromophenyl phenyl ether	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
4-Chloro-3-methylphenol	<380		380	180	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
4-Chloroaniline	<780		780	120	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
4-Chlorophenyl phenyl ether	<190		190	61	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
4-Nitroaniline	<380		380	79	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
4-Nitrophenol	<780		780	210	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Acenaphthene	<38		38	12	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Acenaphthylene	<38		38	8.8	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Anthracene	**14**	**J**	38	9.1	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Benzo[a]anthracene	**160**		38	8.1	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Benzo[a]pyrene	**200**		38	7.0	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Benzo[b]fluoranthene	**250**		38	7.5	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Benzo[g,h,i]perylene	**140**		38	13	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Benzo[k]fluoranthene	**140**		38	9.2	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Bis(2-chloroethoxy)methane	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Bis(2-ethylhexyl) phthalate	<190		190	51	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Butyl benzyl phthalate	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Carbazole	<190		190	54	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Chrysene	**190**		38	8.7	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Dibenz(a,h)anthracene	**22**	**J**	38	11	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Dibenzofuran	<190		190	46	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Diethyl phthalate	<190	*	190	64	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Di-n-butyl phthalate	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Di-n-octyl phthalate	<190		190	78	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Fluoranthene	**340**		38	16	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Fluorene	<38		38	8.8	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Hexachlorobenzene	<78		78	7.6	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Hexachlorobutadiene	<190		190	50	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Hexachlorocyclopentadiene	<780		780	180	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Hexachloroethane	<190		190	41	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM6-1(0.5-1.5)-072413
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-19
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	120		38	13	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Isophorone	<190		190	43	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Naphthalene	<38		38	7.4	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Nitrobenzene	<38		38	12	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
N-Nitrosodi-n-propylamine	<190		190	49	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
N-Nitrosodiphenylamine	<190		190	52	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Pentachlorophenol	<780		780	200	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Phenanthrene	120		38	16	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Phenol	<190		190	61	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1
Pyrene	250		38	14	ug/Kg	☼	07/30/13 07:34	08/02/13 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*35 - 137*	*07/30/13 07:34*	*08/02/13 01:50*	*1*
2-Fluorobiphenyl	*58*		*30 - 119*	*07/30/13 07:34*	*08/02/13 01:50*	*1*
2-Fluorophenol	*55*		*30 - 110*	*07/30/13 07:34*	*08/02/13 01:50*	*1*
Nitrobenzene-d5	*56*		*30 - 115*	*07/30/13 07:34*	*08/02/13 01:50*	*1*
Phenol-d5	*60*		*31 - 110*	*07/30/13 07:34*	*08/02/13 01:50*	*1*
Terphenyl-d14	*70*		*36 - 134*	*07/30/13 07:34*	*08/02/13 01:50*	*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		08/07/13 13:30	08/08/13 14:10	1
Barium	1.3	B	0.50	0.010	mg/L		08/07/13 13:30	08/08/13 14:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 14:10	1
Cadmium	0.0025	J	0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 14:10	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:10	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:10	1
Copper	0.013	J	0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:10	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 14:10	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 14:10	1
Manganese	0.36		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:10	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:10	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 14:10	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:10	1
Zinc	0.94		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 14:10	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		07/26/13 12:00	08/02/13 21:14	1
Barium	0.63		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 21:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 21:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 21:14	1
Chromium	0.068		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:14	1
Cobalt	0.021	J	0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 21:14	1
Copper	0.075		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:14	1
Iron	61		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 21:14	1
Lead	0.13		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 21:14	1
Manganese	0.59		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:14	1
Nickel	0.061		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:14	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 21:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM6-1(0.5-1.5)-072413
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-19
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	0.0050	mg/L		07/26/13 12:00	08/02/13 21:14	1
Zinc	**0.56**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 21:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9400**	**B**	12	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Arsenic	**6.0**		0.60	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Barium	**56**		0.60	0.065	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Beryllium	**0.58**		0.24	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Cadmium	**0.73**		0.12	0.015	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Calcium	**40000**	**B**	12	3.3	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Chromium	**14**		0.60	0.070	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Cobalt	**6.8**		0.30	0.022	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Copper	**22**		0.60	0.054	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Iron	**15000**	**B**	12	5.0	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Lead	**50**	**B**	0.30	0.090	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Magnesium	**22000**	**B**	6.0	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Manganese	**390**	**B**	0.60	0.033	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Nickel	**17**	**B**	0.60	0.059	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Potassium	**2000**		30	1.8	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Selenium	**0.24**	**J**	0.60	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Sodium	**1900**		60	8.1	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Thallium	<0.60		0.60	0.25	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Vanadium	**19**		0.30	0.045	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1
Zinc	**55**	**B**	1.2	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 06:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.087**	**J**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 12:18	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	**25**		18	8.4	ug/Kg	☼	07/25/13 17:00	07/26/13 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.37**		0.200	0.200	SU			08/03/13 13:46	1

Client Sample ID: SM6-1(0.5-1.5)-072413D
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-20
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		08/01/13 11:48	1
Benzene	<6.2		6.2	0.84	ug/Kg	☼		08/01/13 11:48	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 11:48	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		08/01/13 11:48	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		08/01/13 11:48	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		08/01/13 11:48	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 11:48	1
Chlorobenzene	<6.2		6.2	0.62	ug/Kg	☼		08/01/13 11:48	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		08/01/13 11:48	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		08/01/13 11:48	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		08/01/13 11:48	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		08/01/13 11:48	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		08/01/13 11:48	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 11:48	1
1,1-Dichloroethane	<6.2		6.2	0.97	ug/Kg	☼		08/01/13 11:48	1
1,2-Dichloroethane	<6.2		6.2	0.91	ug/Kg	☼		08/01/13 11:48	1
1,1-Dichloroethene	<6.2		6.2	0.99	ug/Kg	☼		08/01/13 11:48	1
1,2-Dichloropropane	<6.2		6.2	0.93	ug/Kg	☼		08/01/13 11:48	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		08/01/13 11:48	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		08/01/13 11:48	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		08/01/13 11:48	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		08/01/13 11:48	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		08/01/13 11:48	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		08/01/13 11:48	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		08/01/13 11:48	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		08/01/13 11:48	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		08/01/13 11:48	1
Tetrachloroethene	<6.2		6.2	0.94	ug/Kg	☼		08/01/13 11:48	1
Toluene	<6.2		6.2	0.86	ug/Kg	☼		08/01/13 11:48	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		08/01/13 11:48	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 11:48	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		08/01/13 11:48	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		08/01/13 11:48	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		08/01/13 11:48	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		08/01/13 11:48	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		08/01/13 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*		*08/01/13 11:48*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*08/01/13 11:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*08/01/13 11:48*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/01/13 11:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
1,2-Dichlorobenzene	<200		200	43	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
1,3-Dichlorobenzene	<200		200	41	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
1,4-Dichlorobenzene	<200		200	41	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2,2'-oxybis[1-chloropropane]	<200		200	43	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM6-1(0.5-1.5)-072413D
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-20
Matrix: Solid
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	110	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2,4,6-Trichlorophenol	<390		390	49	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2,4-Dichlorophenol	<390		390	120	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2,4-Dimethylphenol	<390		390	120	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2,4-Dinitrophenol	<790		790	200	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2,4-Dinitrotoluene	<200		200	60	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2,6-Dinitrotoluene	<200		200	47	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2-Chlorophenol	<200		200	56	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2-Methylnaphthalene	<200		200	51	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2-Methylphenol	<200		200	52	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2-Nitroaniline	<200		200	71	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
2-Nitrophenol	<390		390	62	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
3 & 4 Methylphenol	<200		200	74	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
3,3'-Dichlorobenzidine	<200		200	33	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
3-Nitroaniline	<390		390	76	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
4,6-Dinitro-2-methylphenol	<390		390	95	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
4-Bromophenyl phenyl ether	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
4-Chloro-3-methylphenol	<390		390	190	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
4-Chloroaniline	<790		790	120	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
4-Chlorophenyl phenyl ether	<200		200	62	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
4-Nitroaniline	<390		390	80	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
4-Nitrophenol	<790		790	210	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Acenaphthene	<39		39	12	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Acenaphthylene	<39		39	9.0	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Anthracene	**10**	**J**	39	9.2	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Benzo[a]anthracene	**150**		39	8.2	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Benzo[a]pyrene	**210**		39	7.1	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Benzo[b]fluoranthene	**270**		39	7.6	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Benzo[g,h,i]perylene	**130**		39	13	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Benzo[k]fluoranthene	**130**		39	9.4	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Bis(2-chloroethoxy)methane	<200		200	43	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Bis(2-ethylhexyl) phthalate	<200		200	52	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Butyl benzyl phthalate	<200		200	49	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Carbazole	<200		200	55	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Chrysene	**200**		39	8.9	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Dibenz(a,h)anthracene	**43**		39	11	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Dibenzofuran	<200		200	47	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Diethyl phthalate	<200	*	200	65	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Dimethyl phthalate	<200		200	49	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Di-n-butyl phthalate	<200		200	49	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Di-n-octyl phthalate	<200		200	80	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Fluoranthene	**330**		39	16	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Fluorene	<39		39	8.9	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Hexachlorobenzene	<79		79	7.7	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Hexachlorobutadiene	<200		200	51	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Hexachlorocyclopentadiene	<790		790	180	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Hexachloroethane	<200		200	42	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM6-1(0.5-1.5)-072413D
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-20
Matrix: Solid
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	130		39	13	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Isophorone	<200		200	44	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Naphthalene	<39		39	7.6	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Nitrobenzene	<39		39	12	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
N-Nitrosodi-n-propylamine	<200		200	50	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
N-Nitrosodiphenylamine	<200		200	53	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Pentachlorophenol	<790		790	200	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Phenanthrene	140		39	16	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Phenol	<200		200	62	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1
Pyrene	270		39	14	ug/Kg	☼	07/30/13 07:34	08/02/13 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*35 - 137*	*07/30/13 07:34*	*08/02/13 02:14*	*1*
2-Fluorobiphenyl	*72*		*30 - 119*	*07/30/13 07:34*	*08/02/13 02:14*	*1*
2-Fluorophenol	*62*		*30 - 110*	*07/30/13 07:34*	*08/02/13 02:14*	*1*
Nitrobenzene-d5	*65*		*30 - 115*	*07/30/13 07:34*	*08/02/13 02:14*	*1*
Phenol-d5	*69*		*31 - 110*	*07/30/13 07:34*	*08/02/13 02:14*	*1*
Terphenyl-d14	*79*		*36 - 134*	*07/30/13 07:34*	*08/02/13 02:14*	*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		08/07/13 13:30	08/08/13 14:15	1
Barium	1.0	B	0.50	0.010	mg/L		08/07/13 13:30	08/08/13 14:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/07/13 13:30	08/08/13 14:15	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		08/07/13 13:30	08/08/13 14:15	1
Chromium	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:15	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:15	1
Copper	0.010	J	0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:15	1
Iron	<0.20		0.20	0.20	mg/L		08/07/13 13:30	08/08/13 14:15	1
Lead	0.0056	J	0.0075	0.0050	mg/L		08/07/13 13:30	08/08/13 14:15	1
Manganese	1.1		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:15	1
Nickel	<0.025		0.025	0.010	mg/L		08/07/13 13:30	08/08/13 14:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/07/13 13:30	08/08/13 14:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/07/13 13:30	08/08/13 14:15	1
Zinc	0.69		0.10	0.020	mg/L		08/07/13 13:30	08/08/13 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.039	J	0.050	0.010	mg/L		07/26/13 12:00	08/02/13 21:20	1
Barium	0.69		0.50	0.010	mg/L		07/26/13 12:00	08/02/13 21:20	1
Beryllium	0.0047		0.0040	0.0040	mg/L		07/26/13 12:00	08/02/13 21:20	1
Cadmium	0.0030	J	0.0050	0.0020	mg/L		07/26/13 12:00	08/02/13 21:20	1
Chromium	0.10		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:20	1
Cobalt	0.032		0.025	0.0050	mg/L		07/26/13 12:00	08/02/13 21:20	1
Copper	0.11		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:20	1
Iron	99		0.20	0.20	mg/L		07/26/13 12:00	08/02/13 21:20	1
Lead	0.15		0.0075	0.0050	mg/L		07/26/13 12:00	08/02/13 21:20	1
Manganese	0.75		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:20	1
Nickel	0.097		0.025	0.010	mg/L		07/26/13 12:00	08/02/13 21:20	1
Selenium	<0.050		0.050	0.010	mg/L		07/26/13 12:00	08/02/13 21:20	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

Client Sample ID: SM6-1(0.5-1.5)-072413D
Date Collected: 07/24/13 13:10
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59744-20
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	0.0050	mg/L		07/26/13 12:00	08/02/13 21:20	1
Zinc	**0.63**		0.10	0.020	mg/L		07/26/13 12:00	08/02/13 21:20	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8900**	**B**	12	1.1	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Antimony	<1.2		1.2	0.48	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Arsenic	**6.1**		0.59	0.12	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Barium	**51**		0.59	0.064	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Beryllium	**0.57**		0.24	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Cadmium	**0.73**		0.12	0.015	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Calcium	**40000**	**B**	12	3.2	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Chromium	**15**		0.59	0.069	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Cobalt	**7.2**		0.30	0.021	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Copper	**24**		0.59	0.053	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Iron	**15000**	**B**	12	4.9	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Lead	**50**	**B**	0.30	0.089	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Magnesium	**24000**	**B**	5.9	1.2	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Manganese	**410**	**B**	0.59	0.032	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Nickel	**17**	**B**	0.59	0.058	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Potassium	**1900**		30	1.8	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Selenium	**0.25**	**J**	0.59	0.21	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Sodium	**1800**		59	8.0	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Thallium	**0.27**	**J**	0.59	0.25	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Vanadium	**19**		0.30	0.044	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1
Zinc	**56**	**B**	1.2	0.24	mg/Kg	☼	07/25/13 12:30	08/06/13 06:38	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**	**J**	0.20	0.020	ug/L		07/26/13 15:30	07/29/13 12:20	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	**28**		20	9.5	ug/Kg	☼	07/25/13 17:00	07/26/13 11:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.51**		0.200	0.200	SU			08/03/13 13:49	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
^	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 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59744-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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.

500-59744 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59744
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich, IL
Lab Project #:
Sampler: T. Walls
Lab PM: Dwight

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	Parameter: SVOCs	Parameter: TCL metals	Parameter: TCLP 8260 metals	Parameter: PH					Comments
1		BS-1(0.5-1.5)-072413	7-24-13	0815	2	S		X	X	X	X	X					
2		WB-1(0.5-1.5)-072413		0825													
3		WB-2(0.5-1.5)-072413		0840													
4		ST-1(0.5-1.5)-072413		0900													
5		VL-1(0.5-1.5)-072413		0910													
6		VL-2(0.5-1.5)-072413		0925													
7		LA-1(0.5-1.5)-072413		0935													
8		LA-2(0.5-1.5)-072413		0955													
9		LA-3(0.5-1.5)-072413		1015													
10		LA-3(0.5-1.5)-072413Dup	7-24-13	1015	2	S		X	X	X	X	X					

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days 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	Weston	7-24-13	1535	Dale Matter	TA	7-24-13	1535
Dale Matter	TA	7-24-13	1732	Shannon Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S.BabusaKumar
Company: Weston
Address: 750 E. BunkerCt. Ste. 500
Address: Vernon Hills, 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 #: 500-59744
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.8

Client: Weston
Client Project #:
Project Name: IDOT 004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LA-4(0.5-1.5)-072413	7-24-13	1040	2	S	X	X	X	X	X					
12		MB-1(0.5-1.5)-072413	↓	1055	↓		↓	↓	↓	↓	↓					
13		MB-2(0.5-1.5)-072413		1105												
14		MB-3(0.5-1.5)-072413		1125												
15		HA-1(0.5-1.5)-072413		1140												
16		SM5-1(0.5-1.5)-072413		1215												
17		SM5-2(0.5-1.5)-072413		1230												
18		SM5-3(0.5-1.5)-072413		1250												
19		SM6-1(0.5-1.5)-072413	↓	1310	↓		↓	↓	↓	↓	↓					
20		SM6-1(0.5-1.5)-072413Dup	7-24-13	1310	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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
T. Walls	Weston	7-24-13	1535	[signature]	TA	7-24-13	1535
[signature]	TA	7-24-13	1732	Shawn Scott	TA-CHI	7/25/13	0615

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59746-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 2:26:28 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM6-3(0.5-1.5)-072413
Date Collected: 07/24/13 13:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-2
Matrix: Solid
Percent Solids: 86.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		07/31/13 18:49	1
Benzene	<5.8		5.8	0.79	ug/Kg	☼		07/31/13 18:49	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/31/13 18:49	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		07/31/13 18:49	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		07/31/13 18:49	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		07/31/13 18:49	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		07/31/13 18:49	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		07/31/13 18:49	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		07/31/13 18:49	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		07/31/13 18:49	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		07/31/13 18:49	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		07/31/13 18:49	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		07/31/13 18:49	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		07/31/13 18:49	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		07/31/13 18:49	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		07/31/13 18:49	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		07/31/13 18:49	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		07/31/13 18:49	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		07/31/13 18:49	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		07/31/13 18:49	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		07/31/13 18:49	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		07/31/13 18:49	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		07/31/13 18:49	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		07/31/13 18:49	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		07/31/13 18:49	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		07/31/13 18:49	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		07/31/13 18:49	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		07/31/13 18:49	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		07/31/13 18:49	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		07/31/13 18:49	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		07/31/13 18:49	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		07/31/13 18:49	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		07/31/13 18:49	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		07/31/13 18:49	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		07/31/13 18:49	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/31/13 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*07/31/13 18:49*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*07/31/13 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*07/31/13 18:49*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*07/31/13 18:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	43	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
1,2-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2,2'-oxybis[1-chloropropane]	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM6-3(0.5-1.5)-072413
Date Collected: 07/24/13 13:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-2
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	110	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2,4,6-Trichlorophenol	<380		380	48	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2,4-Dichlorophenol	<380		380	120	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2,4-Dimethylphenol	<380		380	120	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2,4-Dinitrophenol	<770		770	190	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2,4-Dinitrotoluene	<190		190	58	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2,6-Dinitrotoluene	<190		190	45	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2-Chlorophenol	<190		190	54	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2-Methylnaphthalene	<190		190	49	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2-Methylphenol	<190		190	51	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2-Nitroaniline	<190		190	69	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
2-Nitrophenol	<380		380	60	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
3 & 4 Methylphenol	<190		190	72	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
3,3'-Dichlorobenzidine	<190		190	32	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
3-Nitroaniline	<380		380	74	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
4,6-Dinitro-2-methylphenol	<380		380	92	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
4-Bromophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
4-Chloro-3-methylphenol	<380		380	180	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
4-Chloroaniline	<770		770	120	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
4-Chlorophenyl phenyl ether	<190		190	60	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
4-Nitroaniline	<380		380	78	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
4-Nitrophenol	<770		770	210	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Acenaphthene	<38		38	11	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Acenaphthylene	<38		38	8.7	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Anthracene	<38		38	9.0	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Benzo[a]anthracene	**68**		38	8.0	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Benzo[a]pyrene	<38		38	6.9	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Benzo[b]fluoranthene	**83**		38	7.4	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Benzo[g,h,i]perylene	<38		38	13	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Benzo[k]fluoranthene	**79**		38	9.1	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Bis(2-chloroethoxy)methane	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Bis(2-ethylhexyl) phthalate	<190		190	50	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Butyl benzyl phthalate	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Carbazole	<190		190	54	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Chrysene	**91**		38	8.6	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Dibenz(a,h)anthracene	<38		38	11	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Dibenzofuran	<190		190	46	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Di-n-butyl phthalate	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Di-n-octyl phthalate	<190		190	77	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Fluoranthene	**180**		38	16	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Fluorene	<38		38	8.7	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Hexachlorobenzene	<77		77	7.5	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Hexachlorobutadiene	<190		190	50	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Hexachlorocyclopentadiene	<770		770	180	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Hexachloroethane	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM6-3(0.5-1.5)-072413
Date Collected: 07/24/13 13:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-2
Matrix: Solid
Percent Solids: 86.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	13	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Isophorone	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Naphthalene	<38		38	7.3	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Nitrobenzene	<38		38	12	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
N-Nitrosodi-n-propylamine	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
N-Nitrosodiphenylamine	<190		190	51	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Pentachlorophenol	<770		770	190	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Phenanthrene	**88**		38	16	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Phenol	<190		190	60	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1
Pyrene	**120**		38	14	ug/Kg	☼	08/01/13 07:18	08/07/13 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*35 - 137*	*08/01/13 07:18*	*08/07/13 03:31*	*1*
2-Fluorobiphenyl	*87*		*30 - 119*	*08/01/13 07:18*	*08/07/13 03:31*	*1*
2-Fluorophenol	*67*		*30 - 110*	*08/01/13 07:18*	*08/07/13 03:31*	*1*
Nitrobenzene-d5	*82*		*30 - 115*	*08/01/13 07:18*	*08/07/13 03:31*	*1*
Phenol-d5	*84*		*31 - 110*	*08/01/13 07:18*	*08/07/13 03:31*	*1*
Terphenyl-d14	*80*		*36 - 134*	*08/01/13 07:18*	*08/07/13 03:31*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 01:38	1
Barium	**0.96**		0.50	0.010	mg/L		07/29/13 08:15	08/03/13 01:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 08:15	08/03/13 01:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 08:15	08/03/13 01:38	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:38	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 01:38	1
Copper	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:38	1
Iron	<0.20		0.20	0.20	mg/L		07/29/13 08:15	08/03/13 01:38	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/29/13 08:15	08/03/13 01:38	1
Manganese	**0.11**		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:38	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:38	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 01:38	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 01:38	1
Zinc	**0.59**	**B**	0.10	0.020	mg/L		07/29/13 08:15	08/03/13 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.034**	**J**	0.050	0.010	mg/L		07/28/13 15:00	08/08/13 01:05	1
Barium	**0.48**	**J**	0.50	0.010	mg/L		07/28/13 15:00	08/08/13 01:05	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/08/13 01:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/08/13 01:05	1
Chromium	**0.070**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:05	1
Cobalt	**0.026**		0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 01:05	1
Copper	**0.10**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:05	1
Iron	**77**		0.20	0.20	mg/L		07/28/13 15:00	08/08/13 01:05	1
Lead	**0.062**		0.0075	0.0050	mg/L		07/28/13 15:00	08/08/13 01:05	1
Manganese	**0.33**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:05	1
Nickel	**0.093**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:05	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 01:05	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM6-3(0.5-1.5)-072413
Date Collected: 07/24/13 13:40
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-2
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	0.0050	mg/L		07/28/13 15:00	08/08/13 01:05	1
Zinc	**0.40**	**B**	0.10	0.020	mg/L		07/28/13 15:00	08/08/13 01:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8800**	**B**	11	1.0	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Arsenic	**9.1**		0.56	0.11	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Barium	**38**		0.56	0.060	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Beryllium	**0.64**		0.22	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Cadmium	**0.76**	**B**	0.11	0.014	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Calcium	**36000**	**B**	11	3.0	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Chromium	**15**		0.56	0.065	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Cobalt	**10**	**B**	0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Copper	**34**	**B**	0.56	0.050	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Iron	**20000**	**B**	11	4.6	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Lead	**22**	**B**	0.28	0.083	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Magnesium	**20000**	**B**	5.6	1.2	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Manganese	**400**	**B**	0.56	0.030	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Nickel	**27**	**B**	0.56	0.055	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Potassium	**1800**		28	1.7	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Sodium	**210**		56	7.5	mg/Kg	☼	07/26/13 14:00	08/01/13 03:29	1
Thallium	**0.34**	**J**	0.56	0.24	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Vanadium	**18**		0.28	0.041	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1
Zinc	**60**	**B**	1.1	0.23	mg/Kg	☼	07/26/13 14:00	07/29/13 21:55	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.083**	**J**	0.20	0.020	ug/L		07/29/13 16:00	07/30/13 10:06	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**		18	8.7	ug/Kg	☼	07/26/13 14:00	07/29/13 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.29**		0.200	0.200	SU			08/05/13 14:05	1

Client Sample ID: SM6-4(0.5-1.5)-072413
Date Collected: 07/24/13 13:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-3
Matrix: Solid
Percent Solids: 85.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		07/31/13 19:13	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		07/31/13 19:13	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/31/13 19:13	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		07/31/13 19:13	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/31/13 19:13	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		07/31/13 19:13	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/31/13 19:13	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		07/31/13 19:13	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/31/13 19:13	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		07/31/13 19:13	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 19:13	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/31/13 19:13	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/31/13 19:13	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/31/13 19:13	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/31/13 19:13	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/31/13 19:13	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/31/13 19:13	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/31/13 19:13	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/31/13 19:13	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 19:13	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/31/13 19:13	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/31/13 19:13	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		07/31/13 19:13	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/31/13 19:13	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/31/13 19:13	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/31/13 19:13	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 19:13	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		07/31/13 19:13	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/31/13 19:13	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/31/13 19:13	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		07/31/13 19:13	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		07/31/13 19:13	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/31/13 19:13	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/31/13 19:13	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 19:13	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/31/13 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*07/31/13 19:13*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*07/31/13 19:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*07/31/13 19:13*	*1*
Toluene-d8 (Surr)	*106*		*75 - 122*		*07/31/13 19:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2,2'-oxybis[1-chloropropane]	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM6-4(0.5-1.5)-072413
Date Collected: 07/24/13 13:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-3
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2,4,6-Trichlorophenol	<370		370	47	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2,4-Dinitrophenol	<760		760	190	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2,6-Dinitrotoluene	<190		190	45	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2-Chlorophenol	<190		190	54	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2-Methylnaphthalene	<190		190	49	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2-Methylphenol	<190		190	50	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2-Nitroaniline	<190		190	67	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
2-Nitrophenol	<370		370	59	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
3 & 4 Methylphenol	<190		190	71	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
3-Nitroaniline	<370		370	72	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
4,6-Dinitro-2-methylphenol	<370		370	91	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
4-Bromophenyl phenyl ether	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
4-Chloroaniline	<760		760	110	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
4-Chlorophenyl phenyl ether	<190		190	59	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
4-Nitroaniline	<370		370	77	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
4-Nitrophenol	<760		760	200	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Acenaphthylene	<37		37	8.6	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Anthracene	<37		37	8.8	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Benzo[a]anthracene	**8.5**	**J**	37	7.9	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Benzo[a]pyrene	<37		37	6.8	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Benzo[b]fluoranthene	<37		37	7.3	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Benzo[g,h,i]perylene	<37		37	13	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Benzo[k]fluoranthene	<37		37	8.9	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Bis(2-ethylhexyl) phthalate	<190		190	50	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Butyl benzyl phthalate	<190		190	47	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Carbazole	<190		190	53	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Chrysene	**16**	**J**	37	8.5	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Dibenz(a,h)anthracene	<37		37	10	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Dimethyl phthalate	<190		190	47	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Di-n-octyl phthalate	<190		190	76	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Fluoranthene	**16**	**J**	37	15	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Fluorene	<37		37	8.5	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Hexachlorobenzene	<76		76	7.4	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Hexachlorocyclopentadiene	<760		760	170	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Hexachloroethane	<190		190	40	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM6-4(0.5-1.5)-072413
Date Collected: 07/24/13 13:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-3
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	13	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Isophorone	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Naphthalene	<37		37	7.2	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Nitrobenzene	<37		37	12	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
N-Nitrosodi-n-propylamine	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
N-Nitrosodiphenylamine	<190		190	51	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Pentachlorophenol	<760		760	190	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Phenanthrene	<37		37	16	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Phenol	<190		190	59	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1
Pyrene	<37		37	14	ug/Kg	☼	08/01/13 07:18	08/07/13 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*35 - 137*	*08/01/13 07:18*	*08/07/13 04:39*	*1*
2-Fluorobiphenyl	*84*		*30 - 119*	*08/01/13 07:18*	*08/07/13 04:39*	*1*
2-Fluorophenol	*64*		*30 - 110*	*08/01/13 07:18*	*08/07/13 04:39*	*1*
Nitrobenzene-d5	*83*		*30 - 115*	*08/01/13 07:18*	*08/07/13 04:39*	*1*
Phenol-d5	*86*		*31 - 110*	*08/01/13 07:18*	*08/07/13 04:39*	*1*
Terphenyl-d14	*84*		*36 - 134*	*08/01/13 07:18*	*08/07/13 04:39*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 01:45	1
Barium	**0.91**		0.50	0.010	mg/L		07/29/13 08:15	08/03/13 01:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 08:15	08/03/13 01:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 08:15	08/03/13 01:45	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 01:45	1
Copper	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:45	1
Iron	<0.20		0.20	0.20	mg/L		07/29/13 08:15	08/03/13 01:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/29/13 08:15	08/03/13 01:45	1
Manganese	**0.68**		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:45	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:45	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 01:45	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 01:45	1
Zinc	**0.60**	**B**	0.10	0.020	mg/L		07/29/13 08:15	08/03/13 01:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.055**		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 01:12	1
Barium	**0.73**		0.50	0.010	mg/L		07/28/13 15:00	08/08/13 01:12	1
Beryllium	**0.0049**		0.0040	0.0040	mg/L		07/28/13 15:00	08/08/13 01:12	1
Cadmium	**0.0024**	**J**	0.0050	0.0020	mg/L		07/28/13 15:00	08/08/13 01:12	1
Chromium	**0.099**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:12	1
Cobalt	**0.036**		0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 01:12	1
Copper	**0.16**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:12	1
Iron	**120**		0.20	0.20	mg/L		07/28/13 15:00	08/08/13 01:12	1
Lead	**0.077**		0.0075	0.0050	mg/L		07/28/13 15:00	08/08/13 01:12	1
Manganese	**0.43**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:12	1
Nickel	**0.14**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:12	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 01:12	1

Client Sample ID: SM6-4(0.5-1.5)-072413
Date Collected: 07/24/13 13:50
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-3
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	0.0050	mg/L		07/28/13 15:00	08/08/13 01:12	1
Zinc	**0.61**	**B**	0.10	0.020	mg/L		07/28/13 15:00	08/08/13 01:12	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9900**	**B**	11	1.0	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Arsenic	**7.6**		0.56	0.11	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Barium	**38**		0.56	0.060	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Beryllium	**0.69**		0.23	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Cadmium	**0.79**	**B**	0.11	0.014	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Calcium	**39000**	**B**	11	3.1	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Chromium	**17**		0.56	0.065	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Cobalt	**11**	**B**	0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Copper	**28**	**B**	0.56	0.050	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Iron	**20000**	**B**	11	4.6	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Lead	**15**	**B**	0.28	0.084	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Magnesium	**24000**	**B**	5.6	1.2	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Manganese	**340**	**B**	0.56	0.031	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Nickel	**27**	**B**	0.56	0.055	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Potassium	**2200**		28	1.7	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Sodium	**230**		56	7.5	mg/Kg	☼	07/26/13 14:00	08/01/13 03:35	1
Thallium	**0.52**	**J**	0.56	0.24	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Vanadium	**20**		0.28	0.042	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1
Zinc	**54**	**B**	1.1	0.23	mg/Kg	☼	07/26/13 14:00	07/29/13 22:01	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**	**J**	0.20	0.020	ug/L		07/29/13 16:00	07/30/13 10:08	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**		18	8.5	ug/Kg	☼	07/26/13 14:00	07/29/13 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.32**		0.200	0.200	SU			08/05/13 14:11	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
E	Result exceeded calibration range.

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59746 COC

Report To (optional)		Bill To (optional)	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste 500	Address:	
Address:	Vernon Hills, IL 60061	Address:	SAMP
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Chain of Custody Record

Lab Job #: 500-59746

Chain of Custody Number:

Page 3 of 4

Temperature °C of Cooler: 3.7

Client: Weston

Client Project #:

Project Name: IDOT - 004

Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	PH	Herbicides	Pesticides			Comments
1		SM6-2(0.5-1.5)-072413	7-24-13	1330	2	S	X	X	X	X	X					
2		SM6-3(0.5-1.5)-072413	↓	1340	↓	↓	↓	↓	↓	↓	↓					
3		SM6-4(0.5-1.5)-072413	↓	1350	↓	↓	↓	↓	↓	↓	↓					
4		SM7-1(0.5-1.5)-072413	↓	1400	↓	↓	↓	↓	↓	↓	↓					
5		SM7-2(0.5-1.5)-072413	↓	1415	↓	↓	↓	↓	↓	↓	↓					
6		VR-1(0.5-1.5)-072413	↓	1430	↓	↓	↓	↓	↓	↓	↓					
7		VR-2(0.5-1.5)-072413	↓	1450	↓	↓	↓	↓	↓	↓	↓					
8		WD2-1(0.5-1.5)-072413	↓	1500	↓	↓	X	X	X	X	X	X	X			
9		WD2-2(0.5-1.5)-072413	↓	1515	↓	↓	X	X	X	X	X	X	X			
10		WD2-2(0.5-1.5)-072413Dup	7-24-13	1515	2	S	X	X	X	X	X	X	X			

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days Standard Other

Requested Due Date __________

Sample Disposal

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
T. Walls	Weston	7-24-13	1535	Dale Mattes	TA	7-24-13	1535
Dale Mattes	TA	7-24-13	1732	Sherri Scott	TA-CHI	7/25/13	0615

Lab Courier: TA

Shipped:

Hand Delivered:

Matrix Key

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

Client Comments

Lab Comments:

TAL-0124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-59746

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler: 3.7

(optional) Report To		(optional) Bill To	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste. 500	Address:	Same
Address:	Vernon Hills, IL 60061	Address:	
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Client Project #	Preservative
Weston		
Project Name: IDOT-004		Parameter
Project Location/State: Lake Zurich / IL	Lab Project #	
Sampler: T. Walls	Lab PM: Dwight	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
11		WDZ-3(0.5-1.5)-072413	7-24-13	1525	2	S	X	X	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

T. Walls 7-24-13

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	Weston	7-24-13	1535	Dell Matter	TA	7-24-13	1535
Dell Matter	TA	7-24-13	1732	Sheri Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: T.A
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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

1085 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.180796124 Longitude: -88.080625807

(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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.180796124 Longitude: -88.080625807

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION SM7-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-38. SEE FIGURE 3-3 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: 500-59746-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-38
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	SM7-1(0.5-1.5)-072413	**Soil Reference Concentrations[A]**
Sample Date	7/24/2013	
Location ID	SM7-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.36	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)	None Detected	
TCL Metals (mg/kg)		
Aluminum, Total	9200 B	---
Arsenic, Total	7.8	11.3 / 13
Barium, Total	33	1500
Beryllium, Total	0.62	22
Cadmium, Total	0.73 B	5.2
Calcium, Total	45000 B	---
Chromium, Total	16	21
Cobalt, Total	12 B	20
Copper, Total	28 B	2900
Iron, Total	20000 B	15000 / 15900
Lead, Total	13 B	107
Magnesium, Total	30000 B	325000
Manganese, Total	470 B	630
Mercury, Total	0.028	0.89
Nickel, Total	28 B	100
Potassium, Total	1900	---
Sodium, Total	220	---
Thallium, Total	0.54 J	2.6
Vanadium, Total	17	550
Zinc, Total	45 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	1	2
Manganese, TCLP	0.79	0.15
Nickel, TCLP	0.013 J	0.1
Zinc, TCLP	0.74 B	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.021 J	0.05
Barium, SPLP	0.6	2
Chromium, SPLP	0.041	0.1
Cobalt, SPLP	0.011 J	1
Copper, SPLP	0.07	0.65
Iron, SPLP	46	5
Lead, SPLP	0.028	0.0075
Manganese, SPLP	0.18	0.15
Nickel, SPLP	0.05	0.1
Zinc, SPLP	0.45 B	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59746-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 2:26:28 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM7-1(0.5-1.5)-072413
Date Collected: 07/24/13 14:00
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-4
Matrix: Solid
Percent Solids: 83.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.0		6.0	2.6	ug/Kg	☼		07/31/13 19:36	1
Benzene	<6.0		6.0	0.83	ug/Kg	☼		07/31/13 19:36	1
Bromodichloromethane	<6.0		6.0	1.0	ug/Kg	☼		07/31/13 19:36	1
Bromoform	<6.0		6.0	1.4	ug/Kg	☼		07/31/13 19:36	1
Bromomethane	<6.0		6.0	1.8	ug/Kg	☼		07/31/13 19:36	1
Carbon disulfide	<6.0		6.0	0.90	ug/Kg	☼		07/31/13 19:36	1
Carbon tetrachloride	<6.0		6.0	1.1	ug/Kg	☼		07/31/13 19:36	1
Chlorobenzene	<6.0		6.0	0.61	ug/Kg	☼		07/31/13 19:36	1
Chloroethane	<6.0		6.0	1.6	ug/Kg	☼		07/31/13 19:36	1
Chloroform	<6.0		6.0	0.69	ug/Kg	☼		07/31/13 19:36	1
Chloromethane	<6.0		6.0	1.3	ug/Kg	☼		07/31/13 19:36	1
cis-1,2-Dichloroethene	<6.0		6.0	0.85	ug/Kg	☼		07/31/13 19:36	1
cis-1,3-Dichloropropene	<6.0		6.0	0.79	ug/Kg	☼		07/31/13 19:36	1
Dibromochloromethane	<6.0		6.0	1.0	ug/Kg	☼		07/31/13 19:36	1
1,1-Dichloroethane	<6.0		6.0	0.95	ug/Kg	☼		07/31/13 19:36	1
1,2-Dichloroethane	<6.0		6.0	0.89	ug/Kg	☼		07/31/13 19:36	1
1,1-Dichloroethene	<6.0		6.0	0.97	ug/Kg	☼		07/31/13 19:36	1
1,2-Dichloropropane	<6.0		6.0	0.91	ug/Kg	☼		07/31/13 19:36	1
1,3-Dichloropropene, Total	<6.0		6.0	0.79	ug/Kg	☼		07/31/13 19:36	1
Ethylbenzene	<6.0		6.0	1.2	ug/Kg	☼		07/31/13 19:36	1
2-Hexanone	<6.0		6.0	1.7	ug/Kg	☼		07/31/13 19:36	1
Methylene Chloride	<6.0		6.0	1.6	ug/Kg	☼		07/31/13 19:36	1
Methyl Ethyl Ketone	<6.0		6.0	2.2	ug/Kg	☼		07/31/13 19:36	1
methyl isobutyl ketone	<6.0		6.0	1.6	ug/Kg	☼		07/31/13 19:36	1
Methyl tert-butyl ether	<6.0		6.0	0.99	ug/Kg	☼		07/31/13 19:36	1
Styrene	<6.0		6.0	0.79	ug/Kg	☼		07/31/13 19:36	1
1,1,2,2-Tetrachloroethane	<6.0		6.0	1.2	ug/Kg	☼		07/31/13 19:36	1
Tetrachloroethene	<6.0		6.0	0.92	ug/Kg	☼		07/31/13 19:36	1
Toluene	<6.0		6.0	0.84	ug/Kg	☼		07/31/13 19:36	1
trans-1,2-Dichloroethene	<6.0		6.0	0.83	ug/Kg	☼		07/31/13 19:36	1
trans-1,3-Dichloropropene	<6.0		6.0	1.1	ug/Kg	☼		07/31/13 19:36	1
1,1,1-Trichloroethane	<6.0		6.0	0.90	ug/Kg	☼		07/31/13 19:36	1
1,1,2-Trichloroethane	<6.0		6.0	0.82	ug/Kg	☼		07/31/13 19:36	1
Trichloroethene	<6.0		6.0	0.99	ug/Kg	☼		07/31/13 19:36	1
Vinyl chloride	<6.0		6.0	1.3	ug/Kg	☼		07/31/13 19:36	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		07/31/13 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*07/31/13 19:36*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*07/31/13 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*07/31/13 19:36*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*07/31/13 19:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	44	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
1,2-Dichlorobenzene	<200		200	43	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
1,3-Dichlorobenzene	<200		200	41	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
1,4-Dichlorobenzene	<200		200	41	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2,2'-oxybis[1-chloropropane]	<200		200	43	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM7-1(0.5-1.5)-072413
Date Collected: 07/24/13 14:00
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-4
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	110	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2,4,6-Trichlorophenol	<390		390	49	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2,4-Dichlorophenol	<390		390	120	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2,4-Dimethylphenol	<390		390	120	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2,4-Dinitrophenol	<790		790	200	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2,4-Dinitrotoluene	<200		200	60	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2,6-Dinitrotoluene	<200		200	46	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2-Chloronaphthalene	<200		200	44	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2-Chlorophenol	<200		200	56	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2-Methylnaphthalene	<200		200	51	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2-Methylphenol	<200		200	52	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2-Nitroaniline	<200		200	70	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
2-Nitrophenol	<390		390	61	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
3 & 4 Methylphenol	<200		200	74	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
3,3'-Dichlorobenzidine	<200		200	33	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
3-Nitroaniline	<390		390	75	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
4,6-Dinitro-2-methylphenol	<390		390	95	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
4-Bromophenyl phenyl ether	<200		200	44	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
4-Chloro-3-methylphenol	<390		390	190	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
4-Chloroaniline	<790		790	120	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
4-Chlorophenyl phenyl ether	<200		200	62	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
4-Nitroaniline	<390		390	80	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
4-Nitrophenol	<790		790	210	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Acenaphthene	<39		39	12	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Acenaphthylene	<39		39	9.0	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Anthracene	<39		39	9.2	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Benzo[a]anthracene	<39		39	8.2	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Benzo[a]pyrene	<39		39	7.1	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Benzo[b]fluoranthene	<39		39	7.6	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Benzo[g,h,i]perylene	<39		39	13	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Benzo[k]fluoranthene	<39		39	9.3	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Bis(2-chloroethoxy)methane	<200		200	43	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Bis(2-chloroethyl)ether	<200		200	58	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Bis(2-ethylhexyl) phthalate	<200		200	52	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Butyl benzyl phthalate	<200		200	49	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Carbazole	<200		200	55	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Chrysene	<39		39	8.8	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Dibenz(a,h)anthracene	<39		39	11	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Dibenzofuran	<200		200	47	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Diethyl phthalate	<200		200	65	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Dimethyl phthalate	<200		200	49	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Di-n-butyl phthalate	<200		200	49	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Di-n-octyl phthalate	<200		200	79	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Fluoranthene	<39		39	16	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Fluorene	<39		39	8.9	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Hexachlorobenzene	<79		79	7.7	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Hexachlorobutadiene	<200		200	51	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Hexachlorocyclopentadiene	<790		790	180	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Hexachloroethane	<200		200	42	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM7-1(0.5-1.5)-072413
Date Collected: 07/24/13 14:00
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-4
Matrix: Solid
Percent Solids: 83.0

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	<39		39	13	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Isophorone	<200		200	44	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Naphthalene	<39		39	7.5	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Nitrobenzene	<39		39	12	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
N-Nitrosodi-n-propylamine	<200		200	50	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
N-Nitrosodiphenylamine	<200		200	53	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Pentachlorophenol	<790		790	200	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Phenanthrene	<39		39	16	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Phenol	<200		200	62	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1
Pyrene	<39		39	14	ug/Kg	☼	08/01/13 07:18	08/07/13 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*35 - 137*	*08/01/13 07:18*	*08/07/13 05:02*	*1*
2-Fluorobiphenyl	*110*		*30 - 119*	*08/01/13 07:18*	*08/07/13 05:02*	*1*
2-Fluorophenol	*79*		*30 - 110*	*08/01/13 07:18*	*08/07/13 05:02*	*1*
Nitrobenzene-d5	*101*		*30 - 115*	*08/01/13 07:18*	*08/07/13 05:02*	*1*
Phenol-d5	*110*		*31 - 110*	*08/01/13 07:18*	*08/07/13 05:02*	*1*
Terphenyl-d14	*101*		*36 - 134*	*08/01/13 07:18*	*08/07/13 05:02*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 01:51	1
Barium	**1.0**		0.50	0.010	mg/L		07/29/13 08:15	08/03/13 01:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 08:15	08/03/13 01:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 08:15	08/03/13 01:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 01:51	1
Copper	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:51	1
Iron	<0.20		0.20	0.20	mg/L		07/29/13 08:15	08/03/13 01:51	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/29/13 08:15	08/03/13 01:51	1
Manganese	**0.79**		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:51	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		07/29/13 08:15	08/03/13 01:51	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 01:51	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 01:51	1
Zinc	**0.74**	**B**	0.10	0.020	mg/L		07/29/13 08:15	08/03/13 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.021**	**J**	0.050	0.010	mg/L		07/28/13 15:00	08/08/13 01:18	1
Barium	**0.60**		0.50	0.010	mg/L		07/28/13 15:00	08/08/13 01:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/08/13 01:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/08/13 01:18	1
Chromium	**0.041**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:18	1
Cobalt	**0.011**	**J**	0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 01:18	1
Copper	**0.070**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:18	1
Iron	**46**		0.20	0.20	mg/L		07/28/13 15:00	08/08/13 01:18	1
Lead	**0.028**		0.0075	0.0050	mg/L		07/28/13 15:00	08/08/13 01:18	1
Manganese	**0.18**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:18	1
Nickel	**0.050**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 01:18	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 01:18	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: SM7-1(0.5-1.5)-072413
Date Collected: 07/24/13 14:00
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-4
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	0.0050	mg/L		07/28/13 15:00	08/08/13 01:18	1
Zinc	**0.45**	**B**	0.10	0.020	mg/L		07/28/13 15:00	08/08/13 01:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9200**	**B**	12	1.1	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Arsenic	**7.8**		0.58	0.12	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Barium	**33**		0.58	0.062	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Beryllium	**0.62**		0.23	0.021	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Cadmium	**0.73**	**B**	0.12	0.015	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Calcium	**45000**	**B**	12	3.2	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Chromium	**16**		0.58	0.068	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Cobalt	**12**	**B**	0.29	0.021	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Copper	**28**	**B**	0.58	0.052	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Iron	**20000**	**B**	12	4.8	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Lead	**13**	**B**	0.29	0.087	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Magnesium	**30000**	**B**	5.8	1.2	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Manganese	**470**	**B**	0.58	0.032	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Nickel	**28**	**B**	0.58	0.057	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Potassium	**1900**		29	1.8	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Selenium	<0.58		0.58	0.21	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Sodium	**220**		58	7.8	mg/Kg	☼	07/26/13 14:00	08/01/13 03:42	1
Thallium	**0.54**	**J**	0.58	0.25	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Vanadium	**17**		0.29	0.043	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1
Zinc	**45**	**B**	1.2	0.24	mg/Kg	☼	07/26/13 14:00	07/29/13 22:07	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**	**J**	0.20	0.020	ug/L		07/29/13 16:00	07/30/13 10:10	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	**28**		18	8.4	ug/Kg	☼	07/26/13 14:00	07/29/13 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.36**		0.200	0.200	SU			08/05/13 14:17	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
E	Result exceeded calibration range.

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59746 COC

(optional)
Report To
Contact: S. Balasubkumar
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59746
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.7

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / 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	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	PH	Herbicides	Pesticides			Comments
1		SM6-2(0.5-1.5)-072413	7-24-13	1330	2	S	X	X	X	X	X					
2		SM6-3(0.5-1.5)-072413	↓	1340	↓	↓	↓	↓	↓	↓	↓					
3		SM6-4(0.5-1.5)-072413	↓	1350	↓	↓	↓	↓	↓	↓	↓					
4		SM7-1(0.5-1.5)-072413	↓	1400	↓	↓	↓	↓	↓	↓	↓					
5		SM7-2(0.5-1.5)-072413	↓	1415	↓	↓	↓	↓	↓	↓	↓					
6		VR-1(0.5-1.5)-072413	↓	1430	↓	↓	↓	↓	↓	↓	↓					
7		VR-2(0.5-1.5)-072413	↓	1450	↓	↓	↓	↓	↓	↓	↓					
8		WD2-1(0.5-1.5)-072413	↓	1500	↓	↓	X	X	X	X	X	X	X			
9		WD2-2(0.5-1.5)-072413	↓	1515	↓	↓	X	X	X	X	X	X	X			
10		WD2-2(0.5-1.5)-072413Dup	7-24-13	1515	2	S	X	X	X	X	X	X	X			

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
T. Walls	Weston	7-24-13	1535	Dale Matten	TA	7-24-13	1535
Dale Matten	TA	7-24-13	1732	Sherri Scott	TA-CHI	7/25/13	0615

Lab Courier: T/A
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

Chain of Custody Record

Lab Job #: 500-59746

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler: 3.7

(optional) Report To		(optional) Bill To	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste. 500	Address:	Same
Address:	Vernon Hills, IL 60061	Address:	
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Client Project #	Preservative
Weston		
Project Name: IDOT-004		Parameter
Project Location/State: Lake Zurich / IL	Lab Project #	
Sampler: T. Walls	Lab PM: Dwight	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
11		WDZ-3(0.5-1.5)-072413	7-24-13	1525	2	S	X	X	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

T. Walls 7-24-13

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	Weston	7-24-13	1535	Dell Matter	TA	7-24-13	1535
Dell Matter	TA	7-24-13	1732	Sheri Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: T.A
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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

110 0 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.179820310 (Decimal Degrees) Longitude: -88.078522645 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.179820310 Longitude: -88.078522645

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION IB-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-40. SEE FIGURE 3-3 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: 500-59940-1.

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 Transporation

Street Address: 2300 South Dirksen Parkway

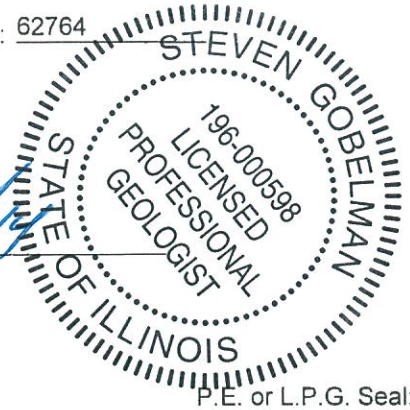
City: Springfield State: IL Zip Code: 62764

Phone: 217-785-4246

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

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/5/17
Date:



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

Summary Table of ISGS Site No. 2664-40
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	IB-1(0.5-1.5)-072613	**Soil Reference Concentrations[A]**
Sample Date	7/26/2013	
Location ID	IB-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.81	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Anthracene	120 J	1.2E+07
Benzo(a)anthracene	670	900 / 1100 / 1800
Benzo(a)pyrene	720	90 / 1300 / 2100
Benzo(b)fluoranthene	1200	900 / 1500 / 2100
Benzo(g,h,i)perylene	650	---
Benzo(k)fluoranthene	370	9000
Chrysene	810	88000
Dibenzo(a,h)anthracene	140 J	90 / 200 / 420
Fluoranthene	1300	3100000
Indeno(1,2,3-cd)pyrene	520	900 / 900 / 1600
Phenanthrene	640	---
Pyrene	1300	2300000
TCL Metals (mg/kg)		
Aluminum, Total	2300 B	---
Arsenic, Total	2.8	11.3 / 13
Barium, Total	20 B	1500
Beryllium, Total	0.22	22
Cadmium, Total	0.83 B	5.2
Calcium, Total	130000 B	---
Chromium, Total	17	21
Cobalt, Total	3	20
Copper, Total	33 B	2900
Iron, Total	11000 B	15000 / 15900
Lead, Total	100 B	107
Magnesium, Total	75000 B	325000
Manganese, Total	310 B	630
Nickel, Total	8.9 B	100
Potassium, Total	660 B	---
Sodium, Total	990 B	---
Vanadium, Total	14 B	550
Zinc, Total	66 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.49 J	2
Cadmium, TCLP	0.0026 J	0.005
Cobalt, TCLP	0.013 J	1
Copper, TCLP	0.03	0.65
Lead, TCLP	0.072	0.0075
Manganese, TCLP	1.7	0.15
Nickel, TCLP	0.019 J	0.1
Zinc, TCLP	0.37	5
SPLP Metals (mg/l)		
Barium, SPLP	0.043 J	2
Chromium, SPLP	0.014 J	0.1
Copper, SPLP	0.038	0.65
Iron, SPLP	9.9	5
Lead, SPLP	0.088	0.0075
Manganese, SPLP	0.066	0.15
Nickel, SPLP	0.012 J	0.1
Zinc, SPLP	0.091 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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59940-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:29:39 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: IB-1(0.5-1.5)-072613
Date Collected: 07/26/13 12:20
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-3
Matrix: Solid
Percent Solids: 93.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.4		5.4	2.3	ug/Kg	☼		08/03/13 06:50	1
Benzene	<5.4		5.4	0.73	ug/Kg	☼		08/03/13 06:50	1
Bromodichloromethane	<5.4		5.4	0.92	ug/Kg	☼		08/03/13 06:50	1
Bromoform	<5.4		5.4	1.2	ug/Kg	☼		08/03/13 06:50	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	☼		08/03/13 06:50	1
Carbon disulfide	<5.4		5.4	0.80	ug/Kg	☼		08/03/13 06:50	1
Carbon tetrachloride	<5.4		5.4	0.98	ug/Kg	☼		08/03/13 06:50	1
Chlorobenzene	<5.4		5.4	0.54	ug/Kg	☼		08/03/13 06:50	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	☼		08/03/13 06:50	1
Chloroform	<5.4		5.4	0.62	ug/Kg	☼		08/03/13 06:50	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:50	1
cis-1,2-Dichloroethene	<5.4		5.4	0.76	ug/Kg	☼		08/03/13 06:50	1
cis-1,3-Dichloropropene	<5.4		5.4	0.70	ug/Kg	☼		08/03/13 06:50	1
Dibromochloromethane	<5.4		5.4	0.93	ug/Kg	☼		08/03/13 06:50	1
1,1-Dichloroethane	<5.4		5.4	0.85	ug/Kg	☼		08/03/13 06:50	1
1,2-Dichloroethane	<5.4		5.4	0.79	ug/Kg	☼		08/03/13 06:50	1
1,1-Dichloroethene	<5.4		5.4	0.87	ug/Kg	☼		08/03/13 06:50	1
1,2-Dichloropropane	<5.4		5.4	0.81	ug/Kg	☼		08/03/13 06:50	1
1,3-Dichloropropene, Total	<5.4		5.4	0.70	ug/Kg	☼		08/03/13 06:50	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:50	1
2-Hexanone	<5.4		5.4	1.5	ug/Kg	☼		08/03/13 06:50	1
Methylene Chloride	<5.4		5.4	1.4	ug/Kg	☼		08/03/13 06:50	1
Methyl Ethyl Ketone	<5.4		5.4	1.9	ug/Kg	☼		08/03/13 06:50	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	☼		08/03/13 06:50	1
Methyl tert-butyl ether	<5.4		5.4	0.89	ug/Kg	☼		08/03/13 06:50	1
Styrene	<5.4		5.4	0.70	ug/Kg	☼		08/03/13 06:50	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:50	1
Tetrachloroethene	<5.4		5.4	0.82	ug/Kg	☼		08/03/13 06:50	1
Toluene	<5.4		5.4	0.75	ug/Kg	☼		08/03/13 06:50	1
trans-1,2-Dichloroethene	<5.4		5.4	0.74	ug/Kg	☼		08/03/13 06:50	1
trans-1,3-Dichloropropene	<5.4		5.4	0.96	ug/Kg	☼		08/03/13 06:50	1
1,1,1-Trichloroethane	<5.4		5.4	0.80	ug/Kg	☼		08/03/13 06:50	1
1,1,2-Trichloroethane	<5.4		5.4	0.73	ug/Kg	☼		08/03/13 06:50	1
Trichloroethene	<5.4		5.4	0.88	ug/Kg	☼		08/03/13 06:50	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:50	1
Xylenes, Total	<11		11	0.49	ug/Kg	☼		08/03/13 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*08/03/13 06:50*	*1*
Dibromofluoromethane	*103*		*75 - 120*		*08/03/13 06:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*		*08/03/13 06:50*	*1*
Toluene-d8 (Surr)	*94*		*75 - 122*		*08/03/13 06:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1800		1800	400	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
1,2-Dichlorobenzene	<1800		1800	380	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
1,3-Dichlorobenzene	<1800		1800	370	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
1,4-Dichlorobenzene	<1800		1800	370	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2,2'-oxybis[1-chloropropane]	<1800		1800	390	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: IB-1(0.5-1.5)-072613
Date Collected: 07/26/13 12:20
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-3
Matrix: Solid
Percent Solids: 93.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<3500		3500	1000	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2,4,6-Trichlorophenol	<3500		3500	440	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2,4-Dichlorophenol	<3500		3500	1100	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2,4-Dimethylphenol	<3500		3500	1100	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2,4-Dinitrophenol	<7100		7100	1800	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2,4-Dinitrotoluene	<1800		1800	540	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2,6-Dinitrotoluene	<1800		1800	420	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2-Chloronaphthalene	<1800		1800	400	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2-Chlorophenol	<1800		1800	500	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2-Methylnaphthalene	<1800		1800	460	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2-Methylphenol	<1800		1800	470	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2-Nitroaniline	<1800		1800	630	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
2-Nitrophenol	<3500		3500	550	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
3 & 4 Methylphenol	<1800		1800	670	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
3,3'-Dichlorobenzidine	<1800		1800	290	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
3-Nitroaniline	<3500		3500	680	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
4,6-Dinitro-2-methylphenol	<3500		3500	850	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
4-Bromophenyl phenyl ether	<1800		1800	390	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
4-Chloro-3-methylphenol	<3500		3500	1700	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
4-Chloroaniline	<7100		7100	1100	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
4-Chlorophenyl phenyl ether	<1800		1800	550	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
4-Nitroaniline	<3500		3500	720	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
4-Nitrophenol	<7100		7100	1900	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Acenaphthene	<350		350	110	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Acenaphthylene	<350		350	81	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Anthracene	**120**	**J**	350	83	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Benzo[a]anthracene	**670**		350	74	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Benzo[a]pyrene	**720**		350	64	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Benzo[b]fluoranthene	**1200**		350	68	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Benzo[g,h,i]perylene	**650**		350	120	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Benzo[k]fluoranthene	**370**		350	84	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Bis(2-chloroethoxy)methane	<1800		1800	390	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Bis(2-chloroethyl)ether	<1800		1800	520	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Bis(2-ethylhexyl) phthalate	<1800		1800	470	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Butyl benzyl phthalate	<1800		1800	440	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Carbazole	<1800		1800	490	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Chrysene	**810**		350	79	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Dibenz(a,h)anthracene	**140**	**J**	350	98	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Dibenzofuran	<1800		1800	420	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Diethyl phthalate	<1800		1800	590	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Dimethyl phthalate	<1800		1800	440	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Di-n-butyl phthalate	<1800		1800	440	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Di-n-octyl phthalate	<1800		1800	710	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Fluoranthene	**1300**		350	140	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Fluorene	<350		350	80	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Hexachlorobenzene	<710		710	69	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Hexachlorobutadiene	<1800		1800	460	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Hexachlorocyclopentadiene	<7100		7100	1600	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Hexachloroethane	<1800		1800	370	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: IB-1(0.5-1.5)-072613
Date Collected: 07/26/13 12:20
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-3
Matrix: Solid
Percent Solids: 93.3

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	520		350	120	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Isophorone	<1800		1800	390	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Naphthalene	<350		350	68	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Nitrobenzene	<350		350	110	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
N-Nitrosodi-n-propylamine	<1800		1800	450	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
N-Nitrosodiphenylamine	<1800		1800	480	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Pentachlorophenol	<7100		7100	1800	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Phenanthrene	640		350	150	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Phenol	<1800		1800	560	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10
Pyrene	1300		350	130	ug/Kg	☼	08/06/13 07:09	08/11/13 15:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*35 - 137*	*08/06/13 07:09*	*08/11/13 15:35*	*10*
2-Fluorobiphenyl	*87*		*30 - 119*	*08/06/13 07:09*	*08/11/13 15:35*	*10*
2-Fluorophenol	*72*		*30 - 110*	*08/06/13 07:09*	*08/11/13 15:35*	*10*
Nitrobenzene-d5	*65*		*30 - 115*	*08/06/13 07:09*	*08/11/13 15:35*	*10*
Phenol-d5	*71*		*31 - 110*	*08/06/13 07:09*	*08/11/13 15:35*	*10*
Terphenyl-d14	*88*		*36 - 134*	*08/06/13 07:09*	*08/11/13 15:35*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 11:42	1
Barium	0.49	J	0.50	0.010	mg/L		08/05/13 08:25	08/10/13 11:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:25	08/10/13 11:42	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		08/05/13 08:25	08/10/13 11:42	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:42	1
Cobalt	0.013	J	0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 11:42	1
Copper	0.030		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:42	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:25	08/10/13 11:42	1
Lead	0.072		0.0075	0.0050	mg/L		08/05/13 08:25	08/10/13 11:42	1
Manganese	1.7		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:42	1
Nickel	0.019	J	0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:42	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 11:42	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 11:42	1
Zinc	0.37		0.10	0.020	mg/L		08/05/13 08:25	08/10/13 11:42	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		08/02/13 11:00	08/10/13 14:58	1
Barium	0.043	J	0.50	0.010	mg/L		08/02/13 11:00	08/10/13 14:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 11:00	08/10/13 14:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 11:00	08/10/13 14:58	1
Chromium	0.014	J	0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:58	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/02/13 11:00	08/10/13 14:58	1
Copper	0.038		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:58	1
Iron	9.9		0.20	0.20	mg/L		08/02/13 11:00	08/10/13 14:58	1
Lead	0.088		0.0075	0.0050	mg/L		08/02/13 11:00	08/10/13 14:58	1
Manganese	0.066		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:58	1
Nickel	0.012	J	0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:58	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 11:00	08/10/13 14:58	1

Client Sample ID: IB-1(0.5-1.5)-072613
Date Collected: 07/26/13 12:20
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-3
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	0.0050	mg/L		08/02/13 11:00	08/10/13 14:58	1
Zinc	0.091	J	0.10	0.020	mg/L		08/02/13 11:00	08/10/13 14:58	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2300	B	11	0.98	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Antimony	<1.1		1.1	0.43	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Arsenic	2.8		0.54	0.11	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Barium	20	B	0.54	0.057	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Beryllium	0.22		0.21	0.019	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Cadmium	0.83	B	0.11	0.014	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Calcium	130000	B	110	29	mg/Kg	☼	07/29/13 14:00	08/11/13 05:05	10
Chromium	17		0.54	0.062	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Cobalt	3.0		0.27	0.019	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Copper	33	B	0.54	0.047	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Iron	11000	B	11	4.4	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Lead	100	B	0.27	0.080	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Magnesium	75000	B	54	11	mg/Kg	☼	07/29/13 14:00	08/11/13 05:05	10
Manganese	310	B	0.54	0.029	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Nickel	8.9	B	0.54	0.053	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Potassium	660	B	27	1.6	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Silver	0.024	J B	0.27	0.019	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Sodium	990	B	54	7.2	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Thallium	<0.54		0.54	0.23	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Vanadium	14	B	0.27	0.040	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1
Zinc	66	B	1.1	0.22	mg/Kg	☼	07/29/13 14:00	08/10/13 08:29	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 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
Mercury	<16		16	7.7	ug/Kg	☼	08/01/13 14:00	08/02/13 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.81		0.200	0.200	SU			08/08/13 20:13	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTA

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

500-59940 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59940

Chain of Custody Number:

Page 3 of 4

Temperature °C of Cooler: 4.3

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	TCL metals	TCLP/SPLP metals	pH	Comments
1		VL2-9(0.5-1.5)-072613	7-26-13	1150	2	S		X	X	X	X	X	
2		MG-1(0.5-1.5)-072613		1205									
3		IB-1(0.5-1.5)-072613		1220									
4		IB-2(0.5-1.5)-072613		1230									
5		IB-3(0.5-1.5)-072613		1240									
6		WD-1(0.5-1.5)-072613		1255									
7		WD-2(0.5-1.5)-072613		1310									
8		WD-3(0.5-1.5)-072613		1325									
9		LH-1(0.5-1.5)-072613		1335									
10		LH-1(0.5-1.5)-072613 Dup	7-26-13	1335	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1	T. Walls	Weston	7-26-13	1535		TA	7-26-13	1535
2		TA	7-26-13	1705		TN	7/26/13	1710
3								

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

8/12/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-59940

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler:

Report To (optional)
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH					Comments
11		LH-2(0.5-1.5)-072613	7-26-13	1355	2	S	X	X	X	X	X					
12		LH-3(0.5-1.5)-072613	↓	1405	↓	↓	↓	↓	↓	↓	↓					
13		LH-4(0.5-1.5)-072613	↓	1415	↓	↓	↓	↓	↓	↓	↓					
14		AB-1(0.5-1.5)-072613	↓	1425	↓	↓	↓	↓	↓	↓	↓					
15		SM4-1(0.5-1.5)-072613	↓	1435	↓	↓	↓	↓	↓	↓	↓					
16		SM4-2(0.5-1.5)-072613	↓	1445	↓	↓	↓	↓	↓	↓	↓					
17		MO-1(0.5-1.5)-072613	↓	1455	↓	↓	↓	↓	↓	↓	↓					
18		MO-2(0.5-1.5)-072613	↓	1500	↓	↓	↓	↓	↓	↓	↓					
19		SM3-1(0.5-1.5)-072613	↓	1515	↓	↓	↓	↓	↓	↓	↓					
20		SM3-1(0.5-1.5)-072613Dup	7-26-13	1515	2	S	X	X	X	X	X					

Turnaround Time Required (Business Days)
__ 1 Day __ 2 Days __ 5 Days __ 7 Days __ 10 Days __ 15 Days 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
T. Walls	Weston	7-26-13	1535	[signature]	TAC	7-26-13	1535
[signature]	TAC	7-26-13	1708	[signature]	TA	7/26/13	1700

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-0018 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

1100 block of S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.179882146 (Decimal Degrees) Longitude: -88.079118479 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.179882146 Longitude: -88.079118479

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 WD2-2 AND WD2-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-41. SEE FIGURE 3-3 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: 500-59746-1.

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 Transporation

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:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

P.E. or P.G. Seal:

Summary Table of ISGS Site No. 2664-41
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	WD2-2(0.5-1.5)-072413	WD2-3(0.5-1.5)-072413	**Soil Reference Concentrations[A]**
Sample Date	7/24/2013	7/24/2013	
Location ID	WD2-2	WD2-3	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.34	8.9	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Anthracene	ND	9.6 J	1.2E+07
Benzo(a)anthracene	38	160	900 / 1100 / 1800
Benzo(a)pyrene	150	360	90 / 1300 / 2100
Benzo(b)fluoranthene	19 J	140	900 / 1500 / 2100
Benzo(k)fluoranthene	120	170	9000
Chrysene	120	82	88000
Fluoranthene	140	180	3100000
Phenanthrene	60	49	---
Pyrene	110	170	2300000
Pesticides (ug/kg)			
4,4-DDT	13 J	ND	2000
TCL Metals (mg/kg)			
Aluminum, Total	12000 B	11000 B	---
Arsenic, Total	10	11	11.3 / 13
Barium, Total	49	36	1500
Beryllium, Total	0.83	0.73	22
Cadmium, Total	0.91 B	0.91 B	5.2
Calcium, Total	17000 J	38000 B	---
Chromium, Total	20	18	21
Cobalt, Total	13 B	11 B	20
Copper, Total	31 B	33 B	2900
Iron, Total	24000 B	23000 B	15000 / 15900
Lead, Total	47 B	24 B	107
Magnesium, Total	12000 J	24000 B	325000
Manganese, Total	370 B	440 B	630
Mercury, Total	0.061 J	0.034	0.89
Nickel, Total	30 B	29 B	100
Potassium, Total	1900	2300	---
Sodium, Total	1500	1800	---
Thallium, Total	0.69	0.56	2.6
Vanadium, Total	24	22	550
Zinc, Total	59 B	60 B	5100
TCLP Metals (mg/l)			
Barium, TCLP	1.2	1.3	2
Copper, TCLP	0.011 J	0.012 J	0.65
Lead, TCLP	ND	0.0051 J	0.0075
Manganese, TCLP	0.84	0.63	0.15
Nickel, TCLP	ND	0.013 J	0.1
Zinc, TCLP	0.74 B	0.87 B	5
SPLP Metals (mg/l)			
Arsenic, SPLP	0.012 J	0.073	0.05
Barium, SPLP	0.82	0.9	2
Beryllium, SPLP	ND	0.0061	0.004
Cadmium, SPLP	ND	0.0043 J	0.005
Chromium, SPLP	0.028 J	0.12	0.1
Cobalt, SPLP	0.012 J	0.046	1
Copper, SPLP	0.065 J	0.22	0.65
Iron, SPLP	27 J	150	5
Lead, SPLP	0.17	0.28	0.0075
Manganese, SPLP	0.27 J	0.76	0.15
Nickel, SPLP	0.038 J	0.17	0.1
Zinc, SPLP	0.51 B	0.81 B	5

Summary Table of ISGS Site No. 2664-41
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59746-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/8/2013 2:26:28 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-2(0.5-1.5)-072413
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-9
Matrix: Solid
Percent Solids: 85.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		07/31/13 23:40	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		07/31/13 23:40	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/31/13 23:40	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		07/31/13 23:40	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		07/31/13 23:40	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	☼		07/31/13 23:40	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		07/31/13 23:40	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		07/31/13 23:40	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		07/31/13 23:40	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		07/31/13 23:40	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 23:40	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		07/31/13 23:40	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		07/31/13 23:40	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		07/31/13 23:40	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		07/31/13 23:40	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/31/13 23:40	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		07/31/13 23:40	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		07/31/13 23:40	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		07/31/13 23:40	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 23:40	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		07/31/13 23:40	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		07/31/13 23:40	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		07/31/13 23:40	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		07/31/13 23:40	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		07/31/13 23:40	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		07/31/13 23:40	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 23:40	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		07/31/13 23:40	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		07/31/13 23:40	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		07/31/13 23:40	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		07/31/13 23:40	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	☼		07/31/13 23:40	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		07/31/13 23:40	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		07/31/13 23:40	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		07/31/13 23:40	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		07/31/13 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 122*		*07/31/13 23:40*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*07/31/13 23:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*07/31/13 23:40*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*07/31/13 23:40*	*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	43	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
1,2-Dichlorobenzene	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2,2'-oxybis[1-chloropropane]	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-2(0.5-1.5)-072413
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-9
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<380		380	110	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2,4,6-Trichlorophenol	<380		380	48	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2,4-Dichlorophenol	<380		380	120	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2,4-Dimethylphenol	<380		380	120	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2,4-Dinitrophenol	<770		770	200	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2,4-Dinitrotoluene	<190		190	59	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2,6-Dinitrotoluene	<190		190	46	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2-Chloronaphthalene	<190		190	43	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2-Chlorophenol	<190		190	55	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2-Methylnaphthalene	<190		190	50	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2-Methylphenol	<190		190	51	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2-Nitroaniline	<190		190	69	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
2-Nitrophenol	<380		380	60	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
3 & 4 Methylphenol	<190		190	73	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
3,3'-Dichlorobenzidine	<190		190	32	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
3-Nitroaniline	<380		380	74	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
4,6-Dinitro-2-methylphenol	<380		380	93	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
4-Bromophenyl phenyl ether	<190		190	43	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
4-Chloro-3-methylphenol	<380		380	180	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
4-Chloroaniline	<770		770	120	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
4-Chlorophenyl phenyl ether	<190		190	60	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
4-Nitroaniline	<380		380	79	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
4-Nitrophenol	<770		770	210	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Acenaphthene	<38		38	11	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Acenaphthylene	<38		38	8.8	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Anthracene	<38		38	9.0	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Benzo[a]anthracene	**38**		38	8.0	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Benzo[a]pyrene	**150**		38	7.0	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Benzo[b]fluoranthene	**19**	**J**	38	7.4	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Benzo[g,h,i]perylene	<38		38	13	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Benzo[k]fluoranthene	**120**		38	9.1	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Bis(2-chloroethoxy)methane	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Bis(2-chloroethyl)ether	<190		190	57	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Bis(2-ethylhexyl) phthalate	<190		190	51	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Butyl benzyl phthalate	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Carbazole	<190		190	54	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Chrysene	**120**		38	8.7	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Dibenz(a,h)anthracene	<38		38	11	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Dibenzofuran	<190		190	46	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Diethyl phthalate	<190		190	64	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Dimethyl phthalate	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Di-n-butyl phthalate	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Di-n-octyl phthalate	<190		190	78	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Fluoranthene	**140**		38	16	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Fluorene	<38		38	8.7	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Hexachlorobenzene	<77		77	7.5	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Hexachlorobutadiene	<190		190	50	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Hexachlorocyclopentadiene	<770		770	180	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Hexachloroethane	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-2(0.5-1.5)-072413
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-9
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<38		38	13	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Isophorone	<190		190	43	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Naphthalene	<38		38	7.4	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Nitrobenzene	<38		38	12	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
N-Nitrosodi-n-propylamine	<190		190	49	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
N-Nitrosodiphenylamine	<190		190	52	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Pentachlorophenol	<770		770	190	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Phenanthrene	**60**		38	16	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Phenol	<190		190	61	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1
Pyrene	**110**		38	14	ug/Kg	☼	08/01/13 07:18	08/07/13 06:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*35 - 137*	*08/01/13 07:18*	*08/07/13 06:55*	*1*
2-Fluorobiphenyl	*92*		*30 - 119*	*08/01/13 07:18*	*08/07/13 06:55*	*1*
2-Fluorophenol	*59*		*30 - 110*	*08/01/13 07:18*	*08/07/13 06:55*	*1*
Nitrobenzene-d5	*83*		*30 - 115*	*08/01/13 07:18*	*08/07/13 06:55*	*1*
Phenol-d5	*86*		*31 - 110*	*08/01/13 07:18*	*08/07/13 06:55*	*1*
Terphenyl-d14	*100*		*36 - 134*	*08/01/13 07:18*	*08/07/13 06:55*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<19		19	7.7	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
alpha-BHC	<19		19	4.7	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
alpha-Chlordane	<19		19	9.4	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
beta-BHC	<19		19	5.8	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Chlordane (technical)	<75		75	36	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
4,4'-DDD	<19		19	3.7	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
4,4'-DDE	<19		19	3.1	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
4,4'-DDT	**11**	**J**	19	9.8	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
delta-BHC	<19		19	5.9	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Dieldrin	<19		19	2.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Endosulfan I	<19		19	8.2	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Endosulfan II	<19		19	3.0	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Endosulfan sulfate	<19		19	3.4	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Endrin	<19		19	2.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Endrin aldehyde	<19		19	3.1	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Endrin ketone	<19		19	4.2	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
gamma-BHC (Lindane)	<19		19	4.0	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
gamma-Chlordane	<19		19	4.9	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Heptachlor	<19		19	7.8	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Heptachlor epoxide	<19		19	6.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Methoxychlor	<93		93	3.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10
Toxaphene	<190		190	79	ug/Kg	☼	07/25/13 07:22	07/29/13 14:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*56 - 128*	*07/25/13 07:22*	*07/29/13 14:00*	*10*
Tetrachloro-m-xylene	*66*		*45 - 112*	*07/25/13 07:22*	*07/29/13 14:00*	*10*

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-2(0.5-1.5)-072413
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-9
Matrix: Solid
Percent Solids: 85.4

Method: 8151 - Herbicides

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<380		380	94	ug/Kg	☼	07/25/13 23:19	07/27/13 11:45	10
2,4-D	<380		380	110	ug/Kg	☼	07/25/13 23:19	07/27/13 11:45	10
2,4-DB	<380		380	110	ug/Kg	☼	07/25/13 23:19	07/27/13 11:45	10
Silvex (2,4,5-TP)	<380		380	99	ug/Kg	☼	07/25/13 23:19	07/27/13 11:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*90*		*32 - 122*	*07/25/13 23:19*	*07/27/13 11:45*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 02:39	1
Barium	**1.3**		0.50	0.010	mg/L		07/29/13 08:15	08/03/13 02:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 08:15	08/03/13 02:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 08:15	08/03/13 02:39	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:39	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 02:39	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:39	1
Iron	<0.20		0.20	0.20	mg/L		07/29/13 08:15	08/03/13 02:39	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/29/13 08:15	08/03/13 02:39	1
Manganese	**0.78**		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:39	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:39	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 02:39	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 02:39	1
Zinc	**0.85**	**B**	0.10	0.020	mg/L		07/29/13 08:15	08/03/13 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.059**		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 02:04	1
Barium	**0.86**		0.50	0.010	mg/L		07/28/13 15:00	08/08/13 02:04	1
Beryllium	**0.0062**		0.0040	0.0040	mg/L		07/28/13 15:00	08/08/13 02:04	1
Cadmium	**0.0027**	**J**	0.0050	0.0020	mg/L		07/28/13 15:00	08/08/13 02:04	1
Chromium	**0.11**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:04	1
Cobalt	**0.038**		0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 02:04	1
Copper	**0.19**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:04	1
Iron	**120**		0.20	0.20	mg/L		07/28/13 15:00	08/08/13 02:04	1
Lead	**0.17**		0.0075	0.0050	mg/L		07/28/13 15:00	08/08/13 02:04	1
Manganese	**0.53**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:04	1
Nickel	**0.14**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:04	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 02:04	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 02:04	1
Zinc	**0.64**	**B**	0.10	0.020	mg/L		07/28/13 15:00	08/08/13 02:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**	**B**	11	1.0	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Arsenic	**8.4**		0.55	0.11	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Barium	**52**		0.55	0.059	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Beryllium	**0.79**		0.22	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Cadmium	**0.99**	**B**	0.11	0.014	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1

Client Sample ID: WD2-2(0.5-1.5)-072413
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-9
Matrix: Solid
Percent Solids: 85.4

Method: 6010B - Total Metals (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	40000	B	11	3.0	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Chromium	20		0.55	0.064	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Cobalt	10	B	0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Copper	36	B	0.55	0.049	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Iron	24000	B	11	4.6	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Lead	73	B	0.28	0.083	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Magnesium	25000	B	5.5	1.1	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Manganese	450	B	0.55	0.030	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Nickel	27	B	0.55	0.054	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Potassium	1900		28	1.7	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Selenium	<0.55		0.55	0.20	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Sodium	1600		55	7.4	mg/Kg	☼	07/26/13 14:00	08/01/13 04:42	1
Thallium	0.43	J	0.55	0.23	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Vanadium	24		0.28	0.041	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1
Zinc	63	B	1.1	0.22	mg/Kg	☼	07/26/13 14:00	07/29/13 22:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	J	0.20	0.020	ug/L		07/29/13 16:00	07/30/13 10:28	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	61		17	8.0	ug/Kg	☼	07/26/13 14:00	07/29/13 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.34		0.200	0.200	SU			08/05/13 13:35	1

Client Sample ID: WD2-2(0.5-1.5)-072413D
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-10
Matrix: Solid
Percent Solids: 85.6

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		08/01/13 00:03	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		08/01/13 00:03	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 00:03	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/01/13 00:03	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		08/01/13 00:03	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		08/01/13 00:03	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/01/13 00:03	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/01/13 00:03	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 00:03	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		08/01/13 00:03	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 00:03	1
cis-1,2-Dichloroethene	<5.8		5.8	0.83	ug/Kg	☼		08/01/13 00:03	1
cis-1,3-Dichloropropene	<5.8		5.8	0.77	ug/Kg	☼		08/01/13 00:03	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 00:03	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		08/01/13 00:03	1
1,2-Dichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/01/13 00:03	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		08/01/13 00:03	1
1,2-Dichloropropane	<5.8		5.8	0.89	ug/Kg	☼		08/01/13 00:03	1
1,3-Dichloropropene, Total	<5.8		5.8	0.77	ug/Kg	☼		08/01/13 00:03	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 00:03	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/01/13 00:03	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 00:03	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/01/13 00:03	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/01/13 00:03	1
Methyl tert-butyl ether	<5.8		5.8	0.97	ug/Kg	☼		08/01/13 00:03	1
Styrene	<5.8		5.8	0.77	ug/Kg	☼		08/01/13 00:03	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 00:03	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		08/01/13 00:03	1
Toluene	<5.8		5.8	0.82	ug/Kg	☼		08/01/13 00:03	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		08/01/13 00:03	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 00:03	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/01/13 00:03	1
1,1,2-Trichloroethane	<5.8		5.8	0.80	ug/Kg	☼		08/01/13 00:03	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		08/01/13 00:03	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 00:03	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/01/13 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*		*08/01/13 00:03*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*08/01/13 00:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*		*08/01/13 00:03*	*1*
Toluene-d8 (Surr)	*101*		*75 - 122*		*08/01/13 00:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
1,2-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-2(0.5-1.5)-072413D
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-10
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2,4,6-Trichlorophenol	<370		370	46	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2-Methylphenol	<190		190	49	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2-Nitroaniline	<190		190	66	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
3 & 4 Methylphenol	<190		190	70	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
3-Nitroaniline	<370		370	71	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
4-Bromophenyl phenyl ether	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
4-Chlorophenyl phenyl ether	<190		190	58	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Acenaphthylene	<37		37	8.5	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Anthracene	<37		37	8.7	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Benzo[a]anthracene	**40**		37	7.7	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Benzo[a]pyrene	<37		37	6.7	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Benzo[b]fluoranthene	**35**	**J**	37	7.2	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Benzo[k]fluoranthene	**67**		37	8.8	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Bis(2-ethylhexyl) phthalate	**260**		190	49	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Butyl benzyl phthalate	<190		190	46	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Carbazole	<190		190	52	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Chrysene	**60**		37	8.3	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Dibenz(a,h)anthracene	<37		37	10	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Diethyl phthalate	<190		190	62	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Dimethyl phthalate	<190		190	46	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Di-n-octyl phthalate	<190		190	75	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Fluoranthene	**66**		37	15	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Fluorene	<37		37	8.4	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Hexachlorobenzene	<74		74	7.3	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Hexachlorobutadiene	<190		190	48	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Hexachloroethane	<190		190	39	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-2(0.5-1.5)-072413D
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-10
Matrix: Solid
Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<37		37	12	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Isophorone	<190		190	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Naphthalene	<37		37	7.1	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Nitrobenzene	<37		37	11	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Phenanthrene	**27**	**J**	37	15	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Phenol	<190		190	58	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1
Pyrene	**63**		37	13	ug/Kg	☼	08/01/13 07:18	08/07/13 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*35 - 137*	*08/01/13 07:18*	*08/07/13 07:17*	*1*
2-Fluorobiphenyl	*84*		*30 - 119*	*08/01/13 07:18*	*08/07/13 07:17*	*1*
2-Fluorophenol	*51*		*30 - 110*	*08/01/13 07:18*	*08/07/13 07:17*	*1*
Nitrobenzene-d5	*79*		*30 - 115*	*08/01/13 07:18*	*08/07/13 07:17*	*1*
Phenol-d5	*86*		*31 - 110*	*08/01/13 07:18*	*08/07/13 07:17*	*1*
Terphenyl-d14	*94*		*36 - 134*	*08/01/13 07:18*	*08/07/13 07:17*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<19		19	7.8	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
alpha-BHC	<19		19	4.7	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
alpha-Chlordane	<19		19	9.5	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
beta-BHC	<19		19	5.8	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Chlordane (technical)	<75		75	36	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
4,4'-DDD	<19		19	3.7	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
4,4'-DDE	<19		19	3.1	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
4,4'-DDT	**13**	**J**	19	9.9	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
delta-BHC	<19		19	5.9	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Dieldrin	<19		19	2.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Endosulfan I	<19		19	8.2	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Endosulfan II	<19		19	3.0	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Endosulfan sulfate	<19		19	3.4	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Endrin	<19		19	2.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Endrin aldehyde	<19		19	3.1	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Endrin ketone	<19		19	4.2	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
gamma-BHC (Lindane)	<19		19	4.1	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
gamma-Chlordane	<19		19	4.9	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Heptachlor	<19		19	7.8	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Heptachlor epoxide	<19		19	6.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Methoxychlor	<93		93	3.6	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10
Toxaphene	<190		190	79	ug/Kg	☼	07/25/13 07:22	07/29/13 14:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*56 - 128*	*07/25/13 07:22*	*07/29/13 14:40*	*10*
Tetrachloro-m-xylene	*69*		*45 - 112*	*07/25/13 07:22*	*07/29/13 14:40*	*10*

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-2(0.5-1.5)-072413D
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-10
Matrix: Solid
Percent Solids: 85.6

Method: 8151 - Herbicides

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<380		380	92	ug/Kg	☼	07/25/13 23:19	07/27/13 12:07	10
2,4-D	<380		380	110	ug/Kg	☼	07/25/13 23:19	07/27/13 12:07	10
2,4-DB	<380		380	110	ug/Kg	☼	07/25/13 23:19	07/27/13 12:07	10
Silvex (2,4,5-TP)	<380		380	97	ug/Kg	☼	07/25/13 23:19	07/27/13 12:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*86*		*32 - 122*	*07/25/13 23:19*	*07/27/13 12:07*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 02:45	1
Barium	**1.2**		0.50	0.010	mg/L		07/29/13 08:15	08/03/13 02:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 08:15	08/03/13 02:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 08:15	08/03/13 02:45	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 02:45	1
Copper	**0.011**	**J**	0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:45	1
Iron	<0.20		0.20	0.20	mg/L		07/29/13 08:15	08/03/13 02:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/29/13 08:15	08/03/13 02:45	1
Manganese	**0.84**		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:45	1
Nickel	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:45	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 02:45	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 02:45	1
Zinc	**0.74**	**B**	0.10	0.020	mg/L		07/29/13 08:15	08/03/13 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.012**	**J**	0.050	0.010	mg/L		07/28/13 15:00	08/08/13 02:10	1
Barium	**0.82**		0.50	0.010	mg/L		07/28/13 15:00	08/08/13 02:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/28/13 15:00	08/08/13 02:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/28/13 15:00	08/08/13 02:10	1
Chromium	**0.028**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:10	1
Cobalt	**0.012**	**J**	0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 02:10	1
Copper	**0.065**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:10	1
Iron	**27**		0.20	0.20	mg/L		07/28/13 15:00	08/08/13 02:10	1
Lead	**0.17**		0.0075	0.0050	mg/L		07/28/13 15:00	08/08/13 02:10	1
Manganese	**0.27**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:10	1
Nickel	**0.038**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:10	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 02:10	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 02:10	1
Zinc	**0.51**	**B**	0.10	0.020	mg/L		07/28/13 15:00	08/08/13 02:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**	**B**	11	1.0	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Arsenic	**10**		0.56	0.11	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Barium	**49**		0.56	0.060	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Beryllium	**0.83**		0.22	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Cadmium	**0.91**	**B**	0.11	0.014	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1

Client Sample ID: WD2-2(0.5-1.5)-072413D
Date Collected: 07/24/13 15:15
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-10
Matrix: Solid
Percent Solids: 85.6

Method: 6010B - Total Metals (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	17000	B	11	3.0	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Chromium	20		0.56	0.065	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Cobalt	13	B	0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Copper	31	B	0.56	0.050	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Iron	24000	B	11	4.6	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Lead	47	B	0.28	0.083	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Magnesium	12000	B	5.6	1.2	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Manganese	370	B	0.56	0.030	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Nickel	30	B	0.56	0.055	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Potassium	1900		28	1.7	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Sodium	1500		56	7.5	mg/Kg	☼	07/26/13 14:00	08/01/13 04:49	1
Thallium	0.69		0.56	0.24	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Vanadium	24		0.28	0.041	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1
Zinc	59	B	1.1	0.23	mg/Kg	☼	07/26/13 14:00	07/29/13 22:59	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	34		19	9.0	ug/Kg	☼	07/26/13 14:00	07/29/13 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.60		0.200	0.200	SU			08/05/13 13:47	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-3(0.5-1.5)-072413
Date Collected: 07/24/13 15:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-11
Matrix: Solid
Percent Solids: 85.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		08/01/13 00:26	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		08/01/13 00:26	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/01/13 00:26	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		08/01/13 00:26	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		08/01/13 00:26	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	☼		08/01/13 00:26	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		08/01/13 00:26	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		08/01/13 00:26	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 00:26	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		08/01/13 00:26	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 00:26	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		08/01/13 00:26	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		08/01/13 00:26	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/01/13 00:26	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		08/01/13 00:26	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		08/01/13 00:26	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		08/01/13 00:26	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		08/01/13 00:26	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		08/01/13 00:26	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 00:26	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		08/01/13 00:26	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		08/01/13 00:26	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		08/01/13 00:26	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		08/01/13 00:26	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		08/01/13 00:26	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		08/01/13 00:26	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 00:26	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		08/01/13 00:26	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		08/01/13 00:26	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		08/01/13 00:26	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		08/01/13 00:26	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	☼		08/01/13 00:26	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		08/01/13 00:26	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		08/01/13 00:26	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		08/01/13 00:26	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/01/13 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/01/13 00:26*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*08/01/13 00:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*08/01/13 00:26*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*08/01/13 00:26*	*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	42	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
1,4-Dichlorobenzene	<180		180	39	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-3(0.5-1.5)-072413
Date Collected: 07/24/13 15:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-11
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	110	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2,4-Dimethylphenol	<360		360	110	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2,6-Dinitrotoluene	<180		180	44	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2-Chlorophenol	<180		180	53	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2-Methylnaphthalene	<180		180	48	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2-Methylphenol	<180		180	49	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2-Nitroaniline	<180		180	66	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
2-Nitrophenol	<360		360	58	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
3 & 4 Methylphenol	<180		180	70	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
3,3'-Dichlorobenzidine	<180		180	31	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
3-Nitroaniline	<360		360	71	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
4,6-Dinitro-2-methylphenol	<360		360	89	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
4-Chloro-3-methylphenol	<360		360	180	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
4-Chlorophenyl phenyl ether	<180		180	58	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
4-Nitroaniline	<360		360	75	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Acenaphthene	<36		36	11	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Acenaphthylene	<36		36	8.4	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Anthracene	**9.6**	**J**	36	8.6	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Benzo[a]anthracene	**160**		36	7.7	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Benzo[a]pyrene	**360**		36	6.7	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Benzo[b]fluoranthene	**140**		36	7.1	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Benzo[g,h,i]perylene	<36		36	12	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Benzo[k]fluoranthene	**170**		36	8.8	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Bis(2-chloroethoxy)methane	<180		180	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Bis(2-ethylhexyl) phthalate	<180		180	49	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Butyl benzyl phthalate	<180		180	46	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Carbazole	<180		180	52	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Chrysene	**82**		36	8.3	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Dibenz(a,h)anthracene	<36		36	10	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Dibenzofuran	<180		180	44	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Diethyl phthalate	<180		180	61	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Di-n-octyl phthalate	<180		180	75	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Fluoranthene	**180**		36	15	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Fluorene	<36		36	8.3	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Hexachlorobenzene	<74		74	7.2	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Hexachloroethane	<180		180	39	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

Client Sample ID: WD2-3(0.5-1.5)-072413
Date Collected: 07/24/13 15:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-11
Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<36		36	12	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Isophorone	<180		180	41	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Naphthalene	<36		36	7.1	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Nitrobenzene	<36		36	11	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
N-Nitrosodi-n-propylamine	<180		180	47	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
N-Nitrosodiphenylamine	<180		180	50	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Phenanthrene	**49**		36	15	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Phenol	<180		180	58	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1
Pyrene	**170**		36	13	ug/Kg	☼	08/01/13 07:18	08/07/13 07:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*35 - 137*	*08/01/13 07:18*	*08/07/13 07:40*	*1*
2-Fluorobiphenyl	*98*		*30 - 119*	*08/01/13 07:18*	*08/07/13 07:40*	*1*
2-Fluorophenol	*46*		*30 - 110*	*08/01/13 07:18*	*08/07/13 07:40*	*1*
Nitrobenzene-d5	*82*		*30 - 115*	*08/01/13 07:18*	*08/07/13 07:40*	*1*
Phenol-d5	*84*		*31 - 110*	*08/01/13 07:18*	*08/07/13 07:40*	*1*
Terphenyl-d14	*110*		*36 - 134*	*08/01/13 07:18*	*08/07/13 07:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<19		19	7.9	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
alpha-BHC	<19		19	4.8	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
alpha-Chlordane	<19		19	9.6	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
beta-BHC	<19		19	5.9	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Chlordane (technical)	<76		76	37	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
4,4'-DDD	<19		19	3.8	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
4,4'-DDE	<19		19	3.2	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
4,4'-DDT	<19		19	10	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
delta-BHC	<19		19	6.0	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Dieldrin	<19		19	2.6	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Endosulfan I	<19		19	8.3	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Endosulfan II	<19		19	3.1	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Endosulfan sulfate	<19		19	3.5	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Endrin	<19		19	2.6	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Endrin aldehyde	<19		19	3.2	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Endrin ketone	<19		19	4.3	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
gamma-BHC (Lindane)	<19		19	4.1	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
gamma-Chlordane	<19		19	5.0	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Heptachlor	<19		19	8.0	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Heptachlor epoxide	<19		19	6.8	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Methoxychlor	<95		95	3.7	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10
Toxaphene	<190		190	80	ug/Kg	☼	07/25/13 07:22	07/29/13 15:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*100*		*56 - 128*	*07/25/13 07:22*	*07/29/13 15:00*	*10*
Tetrachloro-m-xylene	*80*		*45 - 112*	*07/25/13 07:22*	*07/29/13 15:00*	*10*

Client Sample ID: WD2-3(0.5-1.5)-072413
Date Collected: 07/24/13 15:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-11
Matrix: Solid
Percent Solids: 85.5

Method: 8151 - Herbicides

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	<380		380	92	ug/Kg	☼	07/25/13 23:19	07/27/13 12:30	10
2,4-D	<380		380	110	ug/Kg	☼	07/25/13 23:19	07/27/13 12:30	10
2,4-DB	<380		380	110	ug/Kg	☼	07/25/13 23:19	07/27/13 12:30	10
Silvex (2,4,5-TP)	<380		380	97	ug/Kg	☼	07/25/13 23:19	07/27/13 12:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*105*		*32 - 122*	*07/25/13 23:19*	*07/27/13 12:30*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 02:51	1
Barium	**1.3**		0.50	0.010	mg/L		07/29/13 08:15	08/03/13 02:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/29/13 08:15	08/03/13 02:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/29/13 08:15	08/03/13 02:51	1
Chromium	<0.025		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:51	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 02:51	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:51	1
Iron	<0.20		0.20	0.20	mg/L		07/29/13 08:15	08/03/13 02:51	1
Lead	**0.0051**	**J**	0.0075	0.0050	mg/L		07/29/13 08:15	08/03/13 02:51	1
Manganese	**0.63**		0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:51	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		07/29/13 08:15	08/03/13 02:51	1
Selenium	<0.050		0.050	0.010	mg/L		07/29/13 08:15	08/03/13 02:51	1
Silver	<0.025		0.025	0.0050	mg/L		07/29/13 08:15	08/03/13 02:51	1
Zinc	**0.87**	**B**	0.10	0.020	mg/L		07/29/13 08:15	08/03/13 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.073**		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 02:16	1
Barium	**0.90**		0.50	0.010	mg/L		07/28/13 15:00	08/08/13 02:16	1
Beryllium	**0.0061**		0.0040	0.0040	mg/L		07/28/13 15:00	08/08/13 02:16	1
Cadmium	**0.0043**	**J**	0.0050	0.0020	mg/L		07/28/13 15:00	08/08/13 02:16	1
Chromium	**0.12**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:16	1
Cobalt	**0.046**		0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 02:16	1
Copper	**0.22**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:16	1
Iron	**150**		0.20	0.20	mg/L		07/28/13 15:00	08/08/13 02:16	1
Lead	**0.28**		0.0075	0.0050	mg/L		07/28/13 15:00	08/08/13 02:16	1
Manganese	**0.76**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:16	1
Nickel	**0.17**		0.025	0.010	mg/L		07/28/13 15:00	08/08/13 02:16	1
Selenium	<0.050		0.050	0.010	mg/L		07/28/13 15:00	08/08/13 02:16	1
Silver	<0.025		0.025	0.0050	mg/L		07/28/13 15:00	08/08/13 02:16	1
Zinc	**0.81**	**B**	0.10	0.020	mg/L		07/28/13 15:00	08/08/13 02:16	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**	**B**	11	1.0	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Arsenic	**11**		0.56	0.11	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Barium	**36**		0.56	0.060	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Beryllium	**0.73**		0.23	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Cadmium	**0.91**	**B**	0.11	0.014	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1

Client Sample ID: WD2-3(0.5-1.5)-072413
Date Collected: 07/24/13 15:25
Date Received: 07/25/13 06:15

Lab Sample ID: 500-59746-11
Matrix: Solid
Percent Solids: 85.5

Method: 6010B - Total Metals (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	38000	B	11	3.1	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Chromium	18		0.56	0.065	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Cobalt	11	B	0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Copper	33	B	0.56	0.050	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Iron	23000	B	11	4.6	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Lead	24	B	0.28	0.084	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Magnesium	24000	B	5.6	1.2	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Manganese	440	B	0.56	0.031	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Nickel	29	B	0.56	0.055	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Potassium	2300		28	1.7	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Sodium	1800		56	7.6	mg/Kg	☼	07/26/13 14:00	08/01/13 04:55	1
Thallium	0.56		0.56	0.24	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Vanadium	22		0.28	0.042	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1
Zinc	60	B	1.1	0.23	mg/Kg	☼	07/26/13 14:00	07/29/13 23:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/29/13 16:00	07/30/13 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18	J	0.20	0.020	ug/L		07/29/13 16:00	07/30/13 10:32	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	22		19	8.8	ug/Kg	☼	07/26/13 14:00	07/29/13 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.90		0.200	0.200	SU			08/05/13 13:53	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
E	Result exceeded calibration range.

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59746-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59746 COC

Report To (optional)
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59746
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.7

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / IL
Lab Project #:
Sampler: T. Walls
Lab PM: D. Wright

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
1		SM6-2(0.5-1.5)-072413	7-24-13	1330	2	S	X	X	X	X	X					
2		SM6-3(0.5-1.5)-072413	↓	1340	↓	↓	↓	↓	↓	↓	↓					
3		SM6-4(0.5-1.5)-072413	↓	1350	↓	↓	↓	↓	↓	↓	↓					
4		SM7-1(0.5-1.5)-072413	↓	1400	↓	↓	↓	↓	↓	↓	↓					
5		SM7-2(0.5-1.5)-072413	↓	1415	↓	↓	↓	↓	↓	↓	↓					
6		VR-1(0.5-1.5)-072413	↓	1430	↓	↓	↓	↓	↓	↓	↓					
7		VR-2(0.5-1.5)-072413	↓	1450	↓	↓	↓	↓	↓	↓	↓					
8		WD2-1(0.5-1.5)-072413	↓	1500	↓	↓	X	X	X	X	X	X	X			
9		WD2-2(0.5-1.5)-072413	↓	1515	↓	↓	X	X	X	X	X	X	X			
10		WD2-2(0.5-1.5)-072413Dup	7-24-13	1515	2	S	X	X	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
T. Walls	Weston	7-24-13	1535	[signature]	TA	7-24-13	1535
[signature]	TA	7-24-13	1732	Sherri Scott	TA-CHI	7/25/13	0615

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

Chain of Custody Record

Lab Job #: 500-59746

Chain of Custody Number:

Page 4 of 4

Temperature °C of Cooler: 3.7

(optional) Report To		(optional) Bill To	
Contact:	S. Balasubramanian	Contact:	
Company:	Weston	Company:	
Address:	750 E. Bunker Ct Ste. 500	Address:	Same
Address:	Vernon Hills, IL 60061	Address:	
Phone:	847-918-4018	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Client	Client Project #	Preservative
Weston		
Project Name: IDOT-004		Parameter
Project Location/State: Lake Zurich / IL	Lab Project #	
Sampler: T. Walls	Lab PM: Dwight	

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
11		WDZ-3(0.5-1.5)-072413	7-24-13	1525	2	S	X	X	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

T. Walls 7-24-13

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	Weston	7-24-13	1535	Dell Matter	TA	7-24-13	1535
Dell Matter	TA	7-24-13	1732	Sheri Scott	TA-CHI	7/25/13	0615
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: T.A
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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
1200 block of S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.177277101 (Decimal Degrees) Longitude: -88.075620891 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.177277101 Longitude: -88.075620891

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION VL2-9 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-47. SEE FIGURE 3-3 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: 500-59940-1.

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 Transporation

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:

7/5/16
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-47
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	VL2-9(0.5-1.5)-072613	**Soil Reference Concentrations[A]**
Sample Date	7/26/2013	
Location ID	VL2-9	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.68	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	20 J	900 / 1100 / 1800
Benzo(a)pyrene	26 J	90 / 1300 / 2100
Benzo(b)fluoranthene	39	900 / 1500 / 2100
Benzo(g,h,i)perylene	35 J-	---
Benzo(k)fluoranthene	15 J	9000
Chrysene	37	88000
Fluoranthene	34 J	3100000
Indeno(1,2,3-cd)pyrene	21 J	900 / 900 / 1600
Phenanthrene	24 J	---
Pyrene	41	2300000
TCL Metals (mg/kg)		
Aluminum, Total	8000 B	---
Arsenic, Total	9.1	11.3 / 13
Barium, Total	32 B	1500
Beryllium, Total	0.51	22
Cadmium, Total	0.62 B	5.2
Calcium, Total	60000 J	---
Chromium, Total	13	21
Cobalt, Total	10	20
Copper, Total	29 B	2900
Iron, Total	18000 B	15000 / 15900
Lead, Total	18 J-	107
Magnesium, Total	28000 J	325000
Manganese, Total	390 B	630
Mercury, Total	0.014 J	0.89
Nickel, Total	25 B	100
Potassium, Total	2000 J+	---
Sodium, Total	200 J+	---
Thallium, Total	0.44 J	2.6
Vanadium, Total	16 B	550
Zinc, Total	45 J-	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.61	2
Manganese, TCLP	0.8	0.15
Zinc, TCLP	0.22	5
SPLP Metals (mg/l)		
Barium, SPLP	0.39 J	2
Chromium, SPLP	0.01 J	0.1
Copper, SPLP	0.013 J	0.65
Iron, SPLP	6.6	5
Lead, SPLP	0.0078	0.0075
Manganese, SPLP	0.061	0.15
Zinc, SPLP	0.25	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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

J- - Estimated concentration biased low.

J+ - Estimated concentration biased high.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59940-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:29:39 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: VL2-9(0.5-1.5)-072613
Date Collected: 07/26/13 11:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-1
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.4		5.4	2.3	ug/Kg	☼		08/03/13 06:04	1
Benzene	<5.4		5.4	0.74	ug/Kg	☼		08/03/13 06:04	1
Bromodichloromethane	<5.4		5.4	0.93	ug/Kg	☼		08/03/13 06:04	1
Bromoform	<5.4		5.4	1.2	ug/Kg	☼		08/03/13 06:04	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	☼		08/03/13 06:04	1
Carbon disulfide	<5.4		5.4	0.81	ug/Kg	☼		08/03/13 06:04	1
Carbon tetrachloride	<5.4		5.4	0.98	ug/Kg	☼		08/03/13 06:04	1
Chlorobenzene	<5.4		5.4	0.55	ug/Kg	☼		08/03/13 06:04	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	☼		08/03/13 06:04	1
Chloroform	<5.4		5.4	0.62	ug/Kg	☼		08/03/13 06:04	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:04	1
cis-1,2-Dichloroethene	<5.4		5.4	0.76	ug/Kg	☼		08/03/13 06:04	1
cis-1,3-Dichloropropene	<5.4		5.4	0.71	ug/Kg	☼		08/03/13 06:04	1
Dibromochloromethane	<5.4		5.4	0.94	ug/Kg	☼		08/03/13 06:04	1
1,1-Dichloroethane	<5.4		5.4	0.85	ug/Kg	☼		08/03/13 06:04	1
1,2-Dichloroethane	<5.4		5.4	0.80	ug/Kg	☼		08/03/13 06:04	1
1,1-Dichloroethene	<5.4		5.4	0.87	ug/Kg	☼		08/03/13 06:04	1
1,2-Dichloropropane	<5.4		5.4	0.82	ug/Kg	☼		08/03/13 06:04	1
1,3-Dichloropropene, Total	<5.4		5.4	0.71	ug/Kg	☼		08/03/13 06:04	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:04	1
2-Hexanone	<5.4		5.4	1.6	ug/Kg	☼		08/03/13 06:04	1
Methylene Chloride	<5.4		5.4	1.5	ug/Kg	☼		08/03/13 06:04	1
Methyl Ethyl Ketone	<5.4		5.4	2.0	ug/Kg	☼		08/03/13 06:04	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	☼		08/03/13 06:04	1
Methyl tert-butyl ether	<5.4		5.4	0.89	ug/Kg	☼		08/03/13 06:04	1
Styrene	<5.4		5.4	0.71	ug/Kg	☼		08/03/13 06:04	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:04	1
Tetrachloroethene	<5.4		5.4	0.82	ug/Kg	☼		08/03/13 06:04	1
Toluene	<5.4		5.4	0.76	ug/Kg	☼		08/03/13 06:04	1
trans-1,2-Dichloroethene	<5.4		5.4	0.74	ug/Kg	☼		08/03/13 06:04	1
trans-1,3-Dichloropropene	<5.4		5.4	0.97	ug/Kg	☼		08/03/13 06:04	1
1,1,1-Trichloroethane	<5.4		5.4	0.81	ug/Kg	☼		08/03/13 06:04	1
1,1,2-Trichloroethane	<5.4		5.4	0.74	ug/Kg	☼		08/03/13 06:04	1
Trichloroethene	<5.4		5.4	0.89	ug/Kg	☼		08/03/13 06:04	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	☼		08/03/13 06:04	1
Xylenes, Total	<11		11	0.49	ug/Kg	☼		08/03/13 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/03/13 06:04*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*08/03/13 06:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*		*08/03/13 06:04*	*1*
Toluene-d8 (Surr)	*95*		*75 - 122*		*08/03/13 06:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
1,2-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
1,3-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
1,4-Dichlorobenzene	<180		180	37	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2,2'-oxybis[1-chloropropane]	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: VL2-9(0.5-1.5)-072613
Date Collected: 07/26/13 11:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-1
Matrix: Solid
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350	100	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2,4,6-Trichlorophenol	<350		350	44	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2,4-Dichlorophenol	<350		350	110	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2,4-Dimethylphenol	<350		350	110	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2,4-Dinitrophenol	<700		700	180	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2,4-Dinitrotoluene	<180		180	53	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2,6-Dinitrotoluene	<180		180	41	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2-Chloronaphthalene	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2-Chlorophenol	<180		180	50	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2-Methylnaphthalene	<180		180	45	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2-Methylphenol	<180		180	46	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2-Nitroaniline	<180		180	63	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
2-Nitrophenol	<350		350	55	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
3 & 4 Methylphenol	<180		180	66	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
3,3'-Dichlorobenzidine	<180		180	29	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
3-Nitroaniline	<350		350	67	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
4,6-Dinitro-2-methylphenol	<350		350	85	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
4-Bromophenyl phenyl ether	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
4-Chloro-3-methylphenol	<350		350	170	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
4-Chloroaniline	<700		700	110	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
4-Chlorophenyl phenyl ether	<180		180	55	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
4-Nitroaniline	<350		350	72	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
4-Nitrophenol	<700		700	190	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Acenaphthene	<35		35	10	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Acenaphthylene	<35		35	8.0	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Anthracene	<35		35	8.2	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Benzo[a]anthracene	**20**	**J**	35	7.3	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Benzo[a]pyrene	**26**	**J**	35	6.4	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Benzo[b]fluoranthene	**39**		35	6.8	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Benzo[g,h,i]perylene	**35**		35	12	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Benzo[k]fluoranthene	**15**	**J**	35	8.3	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Bis(2-chloroethoxy)methane	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Bis(2-chloroethyl)ether	<180		180	52	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Bis(2-ethylhexyl) phthalate	<180		180	46	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Butyl benzyl phthalate	<180		180	44	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Carbazole	<180		180	49	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Chrysene	**37**		35	7.9	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Dibenz(a,h)anthracene	<35		35	9.7	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Dibenzofuran	<180		180	42	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Diethyl phthalate	<180		180	58	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Dimethyl phthalate	<180		180	44	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Di-n-butyl phthalate	<180		180	44	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Di-n-octyl phthalate	<180		180	71	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Fluoranthene	**34**	**J**	35	14	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Fluorene	<35		35	7.9	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Hexachlorobenzene	<70		70	6.9	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Hexachlorobutadiene	<180		180	46	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Hexachlorocyclopentadiene	<700		700	160	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Hexachloroethane	<180		180	37	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

Client Sample ID: VL2-9(0.5-1.5)-072613
Date Collected: 07/26/13 11:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-1
Matrix: Solid
Percent Solids: 92.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**21**	**J**	35	12	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Isophorone	<180		180	39	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Naphthalene	<35		35	6.7	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Nitrobenzene	<35		35	11	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
N-Nitrosodi-n-propylamine	<180		180	44	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
N-Nitrosodiphenylamine	<180		180	47	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Pentachlorophenol	<700		700	180	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Phenanthrene	**24**	**J**	35	15	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Phenol	<180		180	55	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1
Pyrene	**41**		35	13	ug/Kg	☼	08/06/13 07:09	08/11/13 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*35 - 137*	*08/06/13 07:09*	*08/11/13 14:58*	*1*
2-Fluorobiphenyl	*93*		*30 - 119*	*08/06/13 07:09*	*08/11/13 14:58*	*1*
2-Fluorophenol	*72*		*30 - 110*	*08/06/13 07:09*	*08/11/13 14:58*	*1*
Nitrobenzene-d5	*71*		*30 - 115*	*08/06/13 07:09*	*08/11/13 14:58*	*1*
Phenol-d5	*76*		*31 - 110*	*08/06/13 07:09*	*08/11/13 14:58*	*1*
Terphenyl-d14	*98*		*36 - 134*	*08/06/13 07:09*	*08/11/13 14:58*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 11:13	1
Barium	**0.61**		0.50	0.010	mg/L		08/05/13 08:25	08/10/13 11:13	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:25	08/10/13 11:13	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:25	08/10/13 11:13	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:13	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 11:13	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:13	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:25	08/10/13 11:13	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/05/13 08:25	08/10/13 11:13	1
Manganese	**0.80**		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:13	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/13 08:25	08/10/13 11:13	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:25	08/10/13 11:13	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:25	08/10/13 11:13	1
Zinc	**0.22**		0.10	0.020	mg/L		08/05/13 08:25	08/10/13 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/02/13 11:00	08/10/13 14:45	1
Barium	**0.39**	**J**	0.50	0.010	mg/L		08/02/13 11:00	08/10/13 14:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 11:00	08/10/13 14:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 11:00	08/10/13 14:45	1
Chromium	**0.010**	**J**	0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/02/13 11:00	08/10/13 14:45	1
Copper	**0.013**	**J**	0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:45	1
Iron	**6.6**		0.20	0.20	mg/L		08/02/13 11:00	08/10/13 14:45	1
Lead	**0.0078**		0.0075	0.0050	mg/L		08/02/13 11:00	08/10/13 14:45	1
Manganese	**0.061**		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:45	1
Nickel	<0.025		0.025	0.010	mg/L		08/02/13 11:00	08/10/13 14:45	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 11:00	08/10/13 14:45	1

Client Sample ID: VL2-9(0.5-1.5)-072613
Date Collected: 07/26/13 11:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59940-1
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	0.0050	mg/L		08/02/13 11:00	08/10/13 14:45	1
Zinc	**0.25**		0.10	0.020	mg/L		08/02/13 11:00	08/10/13 14:45	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8000**	**B**	10	0.92	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Antimony	<1.0		1.0	0.40	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Arsenic	**9.1**		0.50	0.099	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Barium	**32**	**B**	0.50	0.053	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Beryllium	**0.51**		0.20	0.018	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Cadmium	**0.62**	**B**	0.10	0.013	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Calcium	**60000**	**B**	100	27	mg/Kg	☼	07/29/13 14:00	08/11/13 04:27	10
Chromium	**13**		0.50	0.058	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Cobalt	**10**		0.25	0.018	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Copper	**29**	**B**	0.50	0.044	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Iron	**18000**	**B**	10	4.1	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Lead	**18**	**B**	0.25	0.074	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Magnesium	**28000**	**B**	5.0	1.0	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Manganese	**390**	**B**	0.50	0.027	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Nickel	**25**	**B**	0.50	0.049	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Potassium	**2000**	**B**	25	1.5	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Selenium	<0.50		0.50	0.18	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Silver	<0.25		0.25	0.018	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Sodium	**200**	**B**	50	6.7	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Thallium	**0.44**	**J**	0.50	0.21	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Vanadium	**16**	**B**	0.25	0.037	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1
Zinc	**45**	**B**	1.0	0.20	mg/Kg	☼	07/29/13 14:00	08/10/13 07:50	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 11:17	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	**14**	**J**	18	8.4	ug/Kg	☼	08/01/13 14:00	08/02/13 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.68**		0.200	0.200	SU			08/08/13 20:06	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
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 or MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59940-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTA

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

500-59940 COC

(optional)

Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct. Ste. 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59940

Chain of Custody Number:

Page 3 of 4

Temperature °C of Cooler: 4.3

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	TCL metals	TCLP/SPLP metals	pH	Comments
1		VL2-9(0.5-1.5)-072613	7-26-13	1150	2	S		X	X	X	X	X	
2		MG-1(0.5-1.5)-072613		1205									
3		IB-1(0.5-1.5)-072613		1220									
4		IB-2(0.5-1.5)-072613		1230									
5		IB-3(0.5-1.5)-072613		1240									
6		WD-1(0.5-1.5)-072613		1255									
7		WD-2(0.5-1.5)-072613		1310									
8		WD-3(0.5-1.5)-072613		1325									
9		LH-1(0.5-1.5)-072613		1335									
10		LH-1(0.5-1.5)-072613 Dup	7-26-13	1335	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1	T. Walls	Weston	7-26-13	1535		TA	7-26-13	1535
2		TA	7-26-13	1705		TN	7/26/13	1710
3								

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

8/12/2013

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

810 to 824 Woodbine Circle, 28 to 44 East Harbor Drive, 2180 S. Rand Road

City: Lake Zurich State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.173437580 (Decimal Degrees) Longitude: -88.072828139 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.173437580 Longitude: --88.072828139

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION RS3-4 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-52. SEE FIGURE 3-4 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: 500-59848-1.

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 Transporation

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:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-52
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	RS3-4(0.5-1.5)-072513	**Soil Reference Concentrations[A]**
Sample Date	7/25/2013	
Location ID	RS3-4	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.98	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Anthracene	14 J	1.2E+07
Benzo(a)anthracene	110	900 / 1100 / 1800
Benzo(a)pyrene	140	90 / 1300 / 2100
Benzo(b)fluoranthene	230	900 / 1500 / 2100
Benzo(g,h,i)perylene	180	---
Benzo(k)fluoranthene	100	9000
Chrysene	160	88000
Dibenzo(a,h)anthracene	37	90 / 200 / 420
Fluoranthene	220	3100000
Indeno(1,2,3-cd)pyrene	140	900 / 900 / 1600
Phenanthrene	70	---
Pyrene	220	2300000
TCL Metals (mg/kg)		
Aluminum, Total	7800	---
Arsenic, Total	8.7	11.3 / 13
Barium, Total	39	1500
Beryllium, Total	0.45	22
Cadmium, Total	0.86 B	5.2
Calcium, Total	71000 B	---
Chromium, Total	15	21
Cobalt, Total	9	20
Copper, Total	36	2900
Iron, Total	18000	15000 / 15900
Lead, Total	80	107
Magnesium, Total	39000 B	325000
Manganese, Total	430 B	630
Mercury, Total	0.03	0.89
Nickel, Total	25 B	100
Potassium, Total	1500	---
Sodium, Total	1600 B	---
Thallium, Total	0.51 J	2.6
Vanadium, Total	16	550
Zinc, Total	65 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.93 B	2
Cadmium, TCLP	0.002 J	0.005
Lead, TCLP	0.0085	0.0075
Manganese, TCLP	1.4	0.15
Zinc, TCLP	0.37 B	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.06	0.05
Barium, SPLP	0.7	2
Beryllium, SPLP	0.0067	0.004
Cadmium, SPLP	0.0022 J	0.005
Chromium, SPLP	0.13	0.1
Cobalt, SPLP	0.047	1
Copper, SPLP	0.2	0.65
Iron, SPLP	150	5
Lead, SPLP	0.2	0.0075
Manganese, SPLP	0.77	0.15
Mercury, SPLP	0.00018 J	0.002
Nickel, SPLP	0.2	0.1
Zinc, SPLP	0.74	5

Summary Table of ISGS Site No. 2664-52
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59848-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:32:45 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: RS3-4(0.5-1.5)-072513
Date Collected: 07/25/13 10:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-13
Matrix: Solid
Percent Solids: 86.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.8		5.8	2.5	ug/Kg	☼		08/02/13 07:29	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		08/02/13 07:29	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/02/13 07:29	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/02/13 07:29	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		08/02/13 07:29	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		08/02/13 07:29	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/02/13 07:29	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/02/13 07:29	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/02/13 07:29	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		08/02/13 07:29	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 07:29	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		08/02/13 07:29	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		08/02/13 07:29	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/02/13 07:29	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		08/02/13 07:29	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/02/13 07:29	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		08/02/13 07:29	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		08/02/13 07:29	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		08/02/13 07:29	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 07:29	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/02/13 07:29	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/02/13 07:29	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/02/13 07:29	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/02/13 07:29	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		08/02/13 07:29	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		08/02/13 07:29	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 07:29	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		08/02/13 07:29	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		08/02/13 07:29	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		08/02/13 07:29	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/02/13 07:29	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/02/13 07:29	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		08/02/13 07:29	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		08/02/13 07:29	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 07:29	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/02/13 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 122*		*08/02/13 07:29*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/02/13 07:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*08/02/13 07:29*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*08/02/13 07:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
1,2-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: RS3-4(0.5-1.5)-072513
Date Collected: 07/25/13 10:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-13
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2,4,6-Trichlorophenol	<370		370	46	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2,4-Dimethylphenol	<370	*	370	120	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2-Methylphenol	<190		190	49	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2-Nitroaniline	<190		190	66	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
3 & 4 Methylphenol	<190		190	70	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
3-Nitroaniline	<370		370	71	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
4-Bromophenyl phenyl ether	<190		190	41	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
4-Chloro-3-methylphenol	<370	*	370	180	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
4-Chlorophenyl phenyl ether	<190	*	190	58	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Acenaphthylene	<37		37	8.5	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Anthracene	**14**	**J**	37	8.7	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Benzo[a]anthracene	**110**		37	7.7	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Benzo[a]pyrene	**140**		37	6.7	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Benzo[b]fluoranthene	**230**		37	7.2	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Benzo[g,h,i]perylene	**180**		37	12	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Benzo[k]fluoranthene	**100**		37	8.8	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Butyl benzyl phthalate	<190		190	46	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Carbazole	<190		190	52	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Chrysene	**160**		37	8.3	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Dibenz(a,h)anthracene	**37**		37	10	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Diethyl phthalate	<190	*	190	62	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Dimethyl phthalate	<190		190	46	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Di-n-octyl phthalate	<190		190	75	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Fluoranthene	**220**		37	15	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Fluorene	<37		37	8.4	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Hexachlorobenzene	<74		74	7.3	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Hexachlorobutadiene	<190		190	48	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Hexachloroethane	<190		190	39	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: RS3-4(0.5-1.5)-072513
Date Collected: 07/25/13 10:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-13
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	140		37	12	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Isophorone	<190		190	41	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Naphthalene	<37		37	7.1	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Nitrobenzene	<37		37	11	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Phenanthrene	70		37	15	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Phenol	<190		190	58	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1
Pyrene	220		37	13	ug/Kg	☼	08/02/13 08:45	08/09/13 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*35 - 137*	*08/02/13 08:45*	*08/09/13 18:37*	*1*
2-Fluorobiphenyl	*56*		*30 - 119*	*08/02/13 08:45*	*08/09/13 18:37*	*1*
2-Fluorophenol	*42*		*30 - 110*	*08/02/13 08:45*	*08/09/13 18:37*	*1*
Nitrobenzene-d5	*42*		*30 - 115*	*08/02/13 08:45*	*08/09/13 18:37*	*1*
Phenol-d5	*49*		*31 - 110*	*08/02/13 08:45*	*08/09/13 18:37*	*1*
Terphenyl-d14	*72*		*36 - 134*	*08/02/13 08:45*	*08/09/13 18:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/01/13 09:30	08/09/13 05:29	1
Barium	0.93	B	0.50	0.010	mg/L		08/01/13 09:30	08/09/13 05:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/13 09:30	08/09/13 05:29	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		08/01/13 09:30	08/09/13 05:29	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 05:29	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 05:29	1
Copper	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 05:29	1
Iron	<0.20		0.20	0.20	mg/L		08/01/13 09:30	08/09/13 05:29	1
Lead	0.0085		0.0075	0.0050	mg/L		08/01/13 09:30	08/09/13 05:29	1
Manganese	1.4		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 05:29	1
Nickel	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 05:29	1
Selenium	<0.050		0.050	0.010	mg/L		08/01/13 09:30	08/09/13 05:29	1
Silver	<0.025		0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 05:29	1
Zinc	0.37	B	0.10	0.020	mg/L		08/01/13 09:30	08/09/13 05:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.060		0.050	0.010	mg/L		07/30/13 10:00	08/08/13 02:30	1
Barium	0.70		0.50	0.010	mg/L		07/30/13 10:00	08/08/13 02:30	1
Beryllium	0.0067		0.0040	0.0040	mg/L		07/30/13 10:00	08/08/13 02:30	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		07/30/13 10:00	08/08/13 02:30	1
Chromium	0.13		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:30	1
Cobalt	0.047		0.025	0.0050	mg/L		07/30/13 10:00	08/08/13 02:30	1
Copper	0.20		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:30	1
Iron	150		0.20	0.20	mg/L		07/30/13 10:00	08/08/13 02:30	1
Lead	0.20		0.0075	0.0050	mg/L		07/30/13 10:00	08/08/13 02:30	1
Manganese	0.77		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:30	1
Nickel	0.20		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:30	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:00	08/08/13 02:30	1

Client Sample ID: RS3-4(0.5-1.5)-072513
Date Collected: 07/25/13 10:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-13
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	0.0050	mg/L		07/30/13 10:00	08/08/13 02:30	1
Zinc	**0.74**		0.10	0.020	mg/L		07/30/13 10:00	08/08/13 02:30	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7800**		12	1.1	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Antimony	<1.2		1.2	0.46	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Arsenic	**8.7**		0.58	0.11	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Barium	**39**		0.58	0.062	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Beryllium	**0.45**		0.23	0.020	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Cadmium	**0.86**	**B**	0.12	0.015	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Calcium	**71000**	**B**	120	31	mg/Kg	☼	07/26/13 10:24	08/09/13 13:57	10
Chromium	**15**		0.58	0.067	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Cobalt	**9.0**		0.29	0.021	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Copper	**36**		0.58	0.051	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Iron	**18000**		12	4.7	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Lead	**80**		0.29	0.086	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Magnesium	**39000**	**B**	5.8	1.2	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Manganese	**430**	**B**	0.58	0.031	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Nickel	**25**	**B**	0.58	0.057	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Potassium	**1500**		29	1.7	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Selenium	<0.58		0.58	0.20	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Sodium	**1600**	**B**	58	7.7	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Thallium	**0.51**	**J**	0.58	0.24	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Vanadium	**16**		0.29	0.043	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1
Zinc	**65**	**B**	1.2	0.23	mg/Kg	☼	07/26/13 10:24	08/09/13 09:02	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/01/13 15:00	08/02/13 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**J**	0.20	0.020	ug/L		07/30/13 15:45	07/31/13 13:05	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	**30**		17	8.2	ug/Kg	☼	07/30/13 17:45	07/31/13 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.98**		0.200	0.200	SU			08/08/13 19:21	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
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.

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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL T

2417 Bond Street, University Park, IL 6048
Phone: 708.534.5200 Fax: 708.534.5

500-59848 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, 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 #: 500-59848
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.6, 4.0

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich / 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	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
1		WD2-4(0.5-1.5)-072513	7-25-13	0735	2	S	X	X	X	X	X	X	X			
2		RS-1(0.5-1.5)-072513	↓	0750	↓	↓	X	X	X	X	X					
3		RS2-1(0.5-1.5)-072513	↓	0805	↓	↓	↓	↓	↓	↓	↓					
4		RS2-2(0.5-1.5)-072513	↓	0815	↓	↓	↓	↓	↓	↓	↓					
5		SM8-1(0.5-1.5)-072513	↓	0830	↓	↓	↓	↓	↓	↓	↓					
6		SM8-2(0.5-1.5)-072513	↓	0840	↓	↓	↓	↓	↓	↓	↓					
7		CB-1(0.5-1.5)-072513	↓	0850	↓	↓	↓	↓	↓	↓	↓					
8		CB-2(0.5-1.5)-072513	↓	0900	↓	↓	↓	↓	↓	↓	↓					
9		RS3-1(0.5-1.5)-072513	↓	0915	↓	↓	↓	↓	↓	↓	↓					
10		RS3-1(0.5-1.5)-072513 Dup	7-25-13	0915	2	S	X	X	X	X	X					

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Timothy A. Walls	Weston	7-25-13	1535	Dale Matter	TA	7-25-13	1535
Dale Matter	TA	7-25-13	1729	Sherri Scott	TA-CHI	7/25/13	1729

Lab Courier: T.A.
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59848
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.6, 4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / IL
Lab Project #:
Sampler: T. Walls
Lab PM: D Wright

Preservative / Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH					Comments
11		RS3-2(0.5-1.5)-072513	7-25-13	0935	2	S	X	X	X	X	X					
12		RS3-3(0.5-1.5)-072513		0950												
13		RS3-4(0.5-1.5)-072513		1005												
14		RS3-5(0.5-1.5)-072513		1015												
15		RS3-6(0.5-1.5)-072513		1030												
16		WD3-1(0.5-1.5)-072513		1050												
17		WD3-2(0.5-1.5)-072513		1105												
18		WD3-3(0.5-1.5)-072513		1115												
19		BZ-1(0.5-1.5)-072513		1135												
20		BZ-1(0.5-1.5)-072513Dup	7-25-13	1135	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 [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
Tim A. Walls	Weston	7-25-13	1535	Dale Matter	TA	7-25-13	1535
Dale Matter	TA	7-25-13	1729	Sherri Scott	TA-CHI	7/25/13	1729
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:

TAL-4124-500 (1209)

8/12/2013

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
21326 Elder Court and 21260-22395 W. White Pine Road

City: Kildeer State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.170126169 (Decimal Degrees) Longitude: -88.069685464 (-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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.170126169 Longitude: -88.069685464

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 RS4-1, RS4-3, RS4-4, RS4-5, AND RS4-7 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-54. SEE FIGURES 3-4 AND 3-5 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: 500-59849-1.
TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-59939-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-54
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	RS4-1(0.5-1.5)-072513	RS4-3(0.5-1.5)-072613	RS4-4(0.5-1.5)-072613	RS4-5(0.5-1.5)-072613	RS4-7(0.5-1.5)-072613	**Soil Reference Concentrations[A]**
Sample Date	7/25/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	
Location ID	RS4-1	RS4-3	RS4-4	RS4-5	RS4-7	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter						
Laboratory pH	8.74	8.57	8.7	8.84	8.89	<6.25,.9.0
VOCs (ug/kg)	None Detected					
SVOCs (ug/kg)						
Benzo(a)anthracene	10 J	150 J	49	310 J	380 J	900 / 1100 / 1800
Benzo(a)pyrene	14 J	200 J	60	400 J	450 J	90 / 1300 / 2100
Benzo(b)fluoranthene	24 J	320 J	100	510 J	690	900 / 1500 / 2100
Benzo(g,h,i)perylene	20 J	170 J	46	ND	360 J	---
Benzo(k)fluoranthene	11 J	100 J	43	350 J	280 J	9000
Chrysene	21 J	210 J	65	440 J	500 J	88000
Fluoranthene	25 J	250 J	87	ND	670 J	3100000
Indeno(1,2,3-cd)pyrene	13 J	130 J	37	ND	320 J	900 / 900 / 1600
Phenanthrene	24 J	ND	28 J	ND	ND	---
Pyrene	23 J	270 J	84	ND	660 J	2300000
TCL Metals (mg/kg)						
Aluminum, Total	8700	9000	11000	2600	2500	---
Arsenic, Total	6.6	8.1	8.3	2.6	2.4	11.3 / 13
Barium, Total	45	29	52	30	26	1500
Beryllium, Total	0.54	0.56	0.64	0.29	0.24	22
Cadmium, Total	0.84	0.94 B	0.9 B	0.9 B	0.94 B	5.2
Calcium, Total	54000 B	41000 B	28000 B	120000 B	120000 B	---
Chromium, Total	17	16	19	39	23	21
Cobalt, Total	10 B	12	9.8	2.5	2.9	20
Copper, Total	25	29 B	28 B	33 B	32 B	2900
Iron, Total	18000	18000	20000	9700	11000	15000 / 15900
Lead, Total	17	22 B	71 B	47 B	79 B	107
Magnesium, Total	30000 B	27000 B	19000 B	56000 B	69000 B	325000
Manganese, Total	450 B	470 B	380 B	930 B	360 B	630
Mercury, Total	0.028	0.01 J	0.03	0.011 J	0.013 J	0.89
Nickel, Total	25 B	28 B	25 B	9.2 B	9.3 B	100
Potassium, Total	2100	2300	1900	660	650	---
Silver, Total	ND	ND	ND	0.064 J	0.03 J	4.4
Sodium, Total	2000	2000 B	2400 B	1000 B	1100 B	---
Thallium, Total	0.49 J	0.69	0.56 J	ND	ND	2.6
Vanadium, Total	18 B	18	21	33	13	550
Zinc, Total	51	50 B	56 B	78 B	78 B	5100

Summary Table of ISGS Site No. 2664-54
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	RS4-1(0.5-1.5)-072513	RS4-3(0.5-1.5)-072613	RS4-4(0.5-1.5)-072613	RS4-5(0.5-1.5)-072613	RS4-7(0.5-1.5)-072613	Soil Reference Concentrations[A]
Sample Date	7/25/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	
Location ID	RS4-1	RS4-3	RS4-4	RS4-5	RS4-7	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter						
TCLP Metals (mg/l)						
Barium, TCLP	0.72 B	0.81 B	0.94 B	0.76 B	0.94 B	2
Cadmium, TCLP	0.0026 J	ND	ND	0.0021 J	ND	0.005
Cobalt, TCLP	0.048	ND	ND	0.016 J	0.005 J	1
Copper, TCLP	ND	ND	ND	0.01 J	ND	0.65
Lead, TCLP	ND	ND	0.016	0.0071 J	0.017	0.0075
Manganese, TCLP	5.3	0.83	1.7	3.6	1.4	0.15
Nickel, TCLP	0.046	ND	0.014 J	0.023 J	0.016 J	0.1
Zinc, TCLP	0.28	0.39 B	0.47 B	0.52 B	0.58 B	5
SPLP Metals (mg/l)						
Arsenic, SPLP	0.094	0.1	0.13	ND	ND	0.05
Barium, SPLP	0.94	0.88	1.2	0.55	0.5	2
Beryllium, SPLP	0.008	0.0085	0.013	ND	ND	0.004
Cadmium, SPLP	0.0027 J	0.0026 J	0.0058	ND	ND	0.005
Chromium, SPLP	0.18	0.18	0.29	0.022 J	0.014 J	0.1
Cobalt, SPLP	0.059	0.066	0.088	ND	ND	1
Copper, SPLP	0.24	0.28	0.4	0.033	0.02 J	0.65
Iron, SPLP	200	200	320	14	5.2	5
Lead, SPLP	0.11	0.18	0.68	0.026	0.047	0.0075
Manganese, SPLP	1.3	0.86	1.6	0.14	0.074	0.15
Mercury, SPLP	0.00025	0.00028	0.00047	ND	ND	0.002
Nickel, SPLP	0.22	0.24	0.35	0.017 J	ND	0.1
Zinc, SPLP	0.76	0.86	1.1	0.44	0.4	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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59849-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/10/2013 9:01:02 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: RS4-1(0.5-1.5)-072513
Date Collected: 07/25/13 15:00
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-14
Matrix: Solid
Percent Solids: 85.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.9		5.9	2.5	ug/Kg	☼		08/02/13 01:10	1
Benzene	<5.9		5.9	0.80	ug/Kg	☼		08/02/13 01:10	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/02/13 01:10	1
Bromoform	<5.9		5.9	1.3	ug/Kg	☼		08/02/13 01:10	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		08/02/13 01:10	1
Carbon disulfide	<5.9		5.9	0.87	ug/Kg	☼		08/02/13 01:10	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		08/02/13 01:10	1
Chlorobenzene	<5.9		5.9	0.59	ug/Kg	☼		08/02/13 01:10	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		08/02/13 01:10	1
Chloroform	<5.9		5.9	0.67	ug/Kg	☼		08/02/13 01:10	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		08/02/13 01:10	1
cis-1,2-Dichloroethene	<5.9		5.9	0.83	ug/Kg	☼		08/02/13 01:10	1
cis-1,3-Dichloropropene	<5.9		5.9	0.77	ug/Kg	☼		08/02/13 01:10	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/02/13 01:10	1
1,1-Dichloroethane	<5.9		5.9	0.93	ug/Kg	☼		08/02/13 01:10	1
1,2-Dichloroethane	<5.9		5.9	0.87	ug/Kg	☼		08/02/13 01:10	1
1,1-Dichloroethene	<5.9		5.9	0.95	ug/Kg	☼		08/02/13 01:10	1
1,2-Dichloropropane	<5.9		5.9	0.89	ug/Kg	☼		08/02/13 01:10	1
1,3-Dichloropropene, Total	<5.9		5.9	0.77	ug/Kg	☼		08/02/13 01:10	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		08/02/13 01:10	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		08/02/13 01:10	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		08/02/13 01:10	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		08/02/13 01:10	1
methyl isobutyl ketone	<5.9		5.9	1.5	ug/Kg	☼		08/02/13 01:10	1
Methyl tert-butyl ether	<5.9		5.9	0.97	ug/Kg	☼		08/02/13 01:10	1
Styrene	<5.9		5.9	0.77	ug/Kg	☼		08/02/13 01:10	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		08/02/13 01:10	1
Tetrachloroethene	<5.9		5.9	0.89	ug/Kg	☼		08/02/13 01:10	1
Toluene	<5.9		5.9	0.82	ug/Kg	☼		08/02/13 01:10	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		08/02/13 01:10	1
trans-1,3-Dichloropropene	<5.9		5.9	1.0	ug/Kg	☼		08/02/13 01:10	1
1,1,1-Trichloroethane	<5.9		5.9	0.87	ug/Kg	☼		08/02/13 01:10	1
1,1,2-Trichloroethane	<5.9		5.9	0.80	ug/Kg	☼		08/02/13 01:10	1
Trichloroethene	<5.9		5.9	0.97	ug/Kg	☼		08/02/13 01:10	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		08/02/13 01:10	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/02/13 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*08/02/13 01:10*	*1*
Dibromofluoromethane	*112*		*75 - 120*		*08/02/13 01:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/02/13 01:10*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/02/13 01:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: RS4-1(0.5-1.5)-072513
Date Collected: 07/25/13 15:00
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-14
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2,4,6-Trichlorophenol	<370		370	47	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2,4-Dimethylphenol	<370	*	370	120	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2,4-Dinitrophenol	<750	*	750	190	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2-Methylphenol	<190		190	50	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2-Nitroaniline	<190		190	67	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
2-Nitrophenol	<370		370	59	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
3 & 4 Methylphenol	<190		190	71	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
3-Nitroaniline	<370		370	72	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
4,6-Dinitro-2-methylphenol	<370		370	91	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
4-Bromophenyl phenyl ether	<190		190	42	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
4-Chloroaniline	<750		750	110	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
4-Chlorophenyl phenyl ether	<190	*	190	59	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
4-Nitroaniline	<370		370	77	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
4-Nitrophenol	<750		750	200	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Acenaphthylene	<37		37	8.6	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Anthracene	<37		37	8.8	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Benzo[a]anthracene	**10**	**J**	37	7.8	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Benzo[a]pyrene	**14**	**J**	37	6.8	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Benzo[b]fluoranthene	**24**	**J**	37	7.2	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Benzo[g,h,i]perylene	**20**	**J**	37	13	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Benzo[k]fluoranthene	**11**	**J**	37	8.9	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Butyl benzyl phthalate	<190		190	47	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Carbazole	<190		190	52	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Chrysene	**21**	**J**	37	8.4	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Dibenz(a,h)anthracene	<37		37	10	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Diethyl phthalate	<190	*	190	62	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Dimethyl phthalate	<190		190	47	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Di-n-octyl phthalate	<190		190	76	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Fluoranthene	**25**	**J**	37	15	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Fluorene	<37		37	8.5	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Hexachlorobenzene	<75		75	7.4	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Hexachlorocyclopentadiene	<750		750	170	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Hexachloroethane	<190		190	40	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: RS4-1(0.5-1.5)-072513
Date Collected: 07/25/13 15:00
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-14
Matrix: Solid
Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	13	J	37	13	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Isophorone	<190		190	42	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Naphthalene	<37		37	7.2	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Nitrobenzene	<37		37	12	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Pentachlorophenol	<750		750	190	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Phenanthrene	24	J	37	16	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Phenol	<190		190	59	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1
Pyrene	23	J	37	13	ug/Kg	☼	08/02/13 08:58	08/07/13 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*35 - 137*	*08/02/13 08:58*	*08/07/13 23:43*	*1*
2-Fluorobiphenyl	*58*		*30 - 119*	*08/02/13 08:58*	*08/07/13 23:43*	*1*
2-Fluorophenol	*57*		*30 - 110*	*08/02/13 08:58*	*08/07/13 23:43*	*1*
Nitrobenzene-d5	*49*		*30 - 115*	*08/02/13 08:58*	*08/07/13 23:43*	*1*
Phenol-d5	*58*		*31 - 110*	*08/02/13 08:58*	*08/07/13 23:43*	*1*
Terphenyl-d14	*74*		*36 - 134*	*08/02/13 08:58*	*08/07/13 23:43*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 06:00	1
Barium	0.72	B	0.50	0.010	mg/L		08/02/13 09:30	08/08/13 06:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 09:30	08/08/13 06:00	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		08/02/13 09:30	08/08/13 06:00	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 06:00	1
Cobalt	0.048		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 06:00	1
Copper	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 06:00	1
Iron	<0.20		0.20	0.20	mg/L		08/02/13 09:30	08/08/13 06:00	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/02/13 09:30	08/08/13 06:00	1
Manganese	5.3		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 06:00	1
Nickel	0.046		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 06:00	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 06:00	1
Silver	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 06:00	1
Zinc	0.28		0.10	0.020	mg/L		08/02/13 09:30	08/08/13 06:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.094		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 21:54	1
Barium	0.94		0.50	0.010	mg/L		07/31/13 10:40	08/08/13 21:54	1
Beryllium	0.0080		0.0040	0.0040	mg/L		07/31/13 10:40	08/08/13 21:54	1
Cadmium	0.0027	J	0.0050	0.0020	mg/L		07/31/13 10:40	08/08/13 21:54	1
Chromium	0.18		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:54	1
Cobalt	0.059		0.025	0.0050	mg/L		07/31/13 10:40	08/08/13 21:54	1
Copper	0.24		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:54	1
Iron	200		0.20	0.20	mg/L		07/31/13 10:40	08/08/13 21:54	1
Lead	0.11		0.0075	0.0050	mg/L		07/31/13 10:40	08/08/13 21:54	1
Manganese	1.3		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:54	1
Nickel	0.22		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:54	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 21:54	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: RS4-1(0.5-1.5)-072513
Date Collected: 07/25/13 15:00
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-14
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	0.0050	mg/L		07/31/13 10:40	08/08/13 21:54	1
Zinc	**0.76**		0.10	0.020	mg/L		07/31/13 10:40	08/08/13 21:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8700**		11	1.0	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Arsenic	**6.6**		0.55	0.11	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Barium	**45**		0.55	0.058	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Beryllium	**0.54**		0.22	0.019	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Cadmium	**0.84**		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Calcium	**54000**	**B**	11	3.0	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Chromium	**17**		0.55	0.063	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Cobalt	**10**	**B**	0.27	0.019	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Copper	**25**		0.55	0.048	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Iron	**18000**		11	4.5	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Lead	**17**		0.27	0.081	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Magnesium	**30000**	**B**	5.5	1.1	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Manganese	**450**	**B**	0.55	0.030	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Nickel	**25**	**B**	0.55	0.054	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Potassium	**2100**		27	1.6	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Sodium	**2000**		55	7.3	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Thallium	**0.49**	**J**	0.55	0.23	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Vanadium	**18**	**B**	0.27	0.040	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1
Zinc	**51**		1.1	0.22	mg/Kg	☼	07/28/13 17:00	08/09/13 00:38	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 11:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 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	**28**		19	8.9	ug/Kg	☼	07/29/13 13:00	07/30/13 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.74**		0.200	0.200	SU			08/08/13 16:40	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59849 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.6/4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / 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	TCL metals	TCLP/SPLP metals	pH	Comments
1		BZ-2(0.5-1.5)-072513	7-25-13	1220	2	S		X	X	X	X	X	
2		VL3-1(0.5-1.5)-072513		1235									
3		VL3-2(0.5-1.5)-072513		1250									
4		VL3-3(0.5-1.5)-072513		1300									
5		CCB-1(0.5-1.5)-072513		1315									
6		CCB-2(0.5-1.5)-072513		1335									
7		CCB-3(0.5-1.5)-072513		1355									
8		CCB-4(0.5-1.5)-072513		1405									
9		WD4-1(0.5-1.5)-072513		1415									
10		WD4-1(0.5-1.5)-072513Dup	7-25-13	1415	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [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	7-25-13	1535	[illegible]	TA	7-25-13	1535
[illegible]	TA	7-25-13	1729	Sheri Scott	TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 4 of 4
Temperature °C of Cooler: 3.6, 4.0

Client	Client Project #	Preservative
Weston		
Project Name: IDOT-004		Parameter
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH	Comments
11		WD4-2(0.5-1.5)-072513	~~7-25-13~~ ~~1430~~ 7-24-13	1430	2	S	X	X	X	X	X	
12		WD4-3(0.5-1.5)-072513	↓	1435	↓	↓	↓	↓	↓	↓	↓	
13		WD4-4(0.5-1.5)-072513		1450								
14		RS4-1(0.5-1.5)-072513		1500								
15		RS4-2(0.5-1.5)-072513	7-25-13	1520	2	S	X	X	X	X	X	

T. Walls 7-25-13

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	Weston	7-25-13	1535		TA	7-25-13	1535
	TA	7-25-13	1729		TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/10/2013

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: 500-59939-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:31:22 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-3(0.5-1.5)-072613
Date Collected: 07/26/13 07:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-1
Matrix: Solid
Percent Solids: 87.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	☼		08/03/13 06:34	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		08/03/13 06:34	1
Bromodichloromethane	<5.7		5.7	0.98	ug/Kg	☼		08/03/13 06:34	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/03/13 06:34	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/03/13 06:34	1
Carbon disulfide	<5.7		5.7	0.85	ug/Kg	☼		08/03/13 06:34	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/03/13 06:34	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		08/03/13 06:34	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		08/03/13 06:34	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		08/03/13 06:34	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 06:34	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		08/03/13 06:34	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		08/03/13 06:34	1
Dibromochloromethane	<5.7		5.7	0.99	ug/Kg	☼		08/03/13 06:34	1
1,1-Dichloroethane	<5.7		5.7	0.90	ug/Kg	☼		08/03/13 06:34	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/03/13 06:34	1
1,1-Dichloroethene	<5.7		5.7	0.92	ug/Kg	☼		08/03/13 06:34	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		08/03/13 06:34	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		08/03/13 06:34	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 06:34	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		08/03/13 06:34	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		08/03/13 06:34	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		08/03/13 06:34	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/03/13 06:34	1
Methyl tert-butyl ether	<5.7		5.7	0.94	ug/Kg	☼		08/03/13 06:34	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		08/03/13 06:34	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 06:34	1
Tetrachloroethene	<5.7		5.7	0.87	ug/Kg	☼		08/03/13 06:34	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		08/03/13 06:34	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		08/03/13 06:34	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/03/13 06:34	1
1,1,1-Trichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/03/13 06:34	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		08/03/13 06:34	1
Trichloroethene	<5.7		5.7	0.94	ug/Kg	☼		08/03/13 06:34	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 06:34	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		08/03/13 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 122*		*08/03/13 06:34*	*1*
Dibromofluoromethane	*105*		*75 - 120*		*08/03/13 06:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*		*08/03/13 06:34*	*1*
Toluene-d8 (Surr)	*100*		*75 - 122*		*08/03/13 06:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<1900		1900	430	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
1,2-Dichlorobenzene	<1900		1900	410	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
1,3-Dichlorobenzene	<1900		1900	400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
1,4-Dichlorobenzene	<1900		1900	400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2,2'-oxybis[1-chloropropane]	<1900		1900	420	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-3(0.5-1.5)-072613
Date Collected: 07/26/13 07:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-1
Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<3700		3700	1100	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2,4,6-Trichlorophenol	<3700		3700	470	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2,4-Dichlorophenol	<3700		3700	1100	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2,4-Dimethylphenol	<3700		3700	1200	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2,4-Dinitrophenol	<7600	*	7600	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2,4-Dinitrotoluene	<1900		1900	580	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2,6-Dinitrotoluene	<1900		1900	450	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2-Chloronaphthalene	<1900		1900	420	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2-Chlorophenol	<1900		1900	540	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2-Methylnaphthalene	<1900		1900	490	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2-Methylphenol	<1900		1900	500	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2-Nitroaniline	<1900		1900	680	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
2-Nitrophenol	<3700		3700	590	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
3 & 4 Methylphenol	<1900		1900	710	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
3,3'-Dichlorobenzidine	<1900		1900	310	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
3-Nitroaniline	<3700		3700	730	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
4,6-Dinitro-2-methylphenol	<3700		3700	920	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
4-Bromophenyl phenyl ether	<1900		1900	420	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
4-Chloro-3-methylphenol	<3700		3700	1800	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
4-Chloroaniline	<7600		7600	1100	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
4-Chlorophenyl phenyl ether	<1900		1900	590	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
4-Nitroaniline	<3700		3700	770	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
4-Nitrophenol	<7600		7600	2000	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Acenaphthene	<370		370	110	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Acenaphthylene	<370		370	87	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Anthracene	<370		370	89	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Benzo[a]anthracene	**150**	**J**	370	79	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Benzo[a]pyrene	**200**	**J**	370	69	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Benzo[b]fluoranthene	**320**	**J**	370	73	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Benzo[g,h,i]perylene	**170**	**J**	370	130	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Benzo[k]fluoranthene	**100**	**J**	370	90	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Bis(2-chloroethoxy)methane	<1900		1900	420	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Bis(2-chloroethyl)ether	<1900		1900	560	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Bis(2-ethylhexyl) phthalate	<1900		1900	500	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Butyl benzyl phthalate	<1900		1900	470	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Carbazole	<1900		1900	530	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Chrysene	**210**	**J**	370	85	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Dibenz(a,h)anthracene	<370		370	110	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Dibenzofuran	<1900		1900	450	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Diethyl phthalate	<1900	*	1900	630	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Dimethyl phthalate	<1900		1900	470	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Di-n-butyl phthalate	<1900		1900	480	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Di-n-octyl phthalate	<1900		1900	770	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Fluoranthene	**250**	**J**	370	150	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Fluorene	<370		370	86	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Hexachlorobenzene	<760		760	74	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Hexachlorobutadiene	<1900		1900	490	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Hexachlorocyclopentadiene	<7600		7600	1700	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Hexachloroethane	<1900		1900	400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-3(0.5-1.5)-072613
Date Collected: 07/26/13 07:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-1
Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	130	J	370	130	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Isophorone	<1900		1900	420	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Naphthalene	<370		370	73	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Nitrobenzene	<370		370	120	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
N-Nitrosodi-n-propylamine	<1900		1900	480	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
N-Nitrosodiphenylamine	<1900		1900	510	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Pentachlorophenol	<7600		7600	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Phenanthrene	<370		370	160	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Phenol	<1900		1900	600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5
Pyrene	270	J	370	140	ug/Kg	☼	08/05/13 09:07	08/11/13 21:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*35 - 137*	*08/05/13 09:07*	*08/11/13 21:01*	*5*
2-Fluorobiphenyl	*59*		*30 - 119*	*08/05/13 09:07*	*08/11/13 21:01*	*5*
2-Fluorophenol	*47*		*30 - 110*	*08/05/13 09:07*	*08/11/13 21:01*	*5*
Nitrobenzene-d5	*44*		*30 - 115*	*08/05/13 09:07*	*08/11/13 21:01*	*5*
Phenol-d5	*47*		*31 - 110*	*08/05/13 09:07*	*08/11/13 21:01*	*5*
Terphenyl-d14	*71*		*36 - 134*	*08/05/13 09:07*	*08/11/13 21:01*	*5*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/13 08:20	08/09/13 22:47	1
Barium	0.81	B	0.50	0.010	mg/L		08/05/13 08:20	08/09/13 22:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:20	08/09/13 22:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:20	08/09/13 22:47	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 22:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 22:47	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 22:47	1
Iron	0.60		0.20	0.20	mg/L		08/05/13 08:20	08/09/13 22:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/05/13 08:20	08/09/13 22:47	1
Manganese	0.83		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 22:47	1
Nickel	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 22:47	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:20	08/09/13 22:47	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 22:47	1
Zinc	0.39	B	0.10	0.020	mg/L		08/05/13 08:20	08/09/13 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10		0.050	0.010	mg/L		07/31/13 11:35	08/10/13 02:18	1
Barium	0.88		0.50	0.010	mg/L		07/31/13 11:35	08/10/13 02:18	1
Beryllium	0.0085		0.0040	0.0040	mg/L		07/31/13 11:35	08/10/13 02:18	1
Cadmium	0.0026	J	0.0050	0.0020	mg/L		07/31/13 11:35	08/10/13 02:18	1
Chromium	0.18		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:18	1
Cobalt	0.066		0.025	0.0050	mg/L		07/31/13 11:35	08/10/13 02:18	1
Copper	0.28		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:18	1
Iron	200		0.20	0.20	mg/L		07/31/13 11:35	08/10/13 02:18	1
Lead	0.18		0.0075	0.0050	mg/L		07/31/13 11:35	08/10/13 02:18	1
Manganese	0.86		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:18	1
Nickel	0.24		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:18	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 11:35	08/10/13 02:18	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-3(0.5-1.5)-072613
Date Collected: 07/26/13 07:50
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-1
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	0.0050	mg/L		07/31/13 11:35	08/10/13 02:18	1
Zinc	**0.86**		0.10	0.020	mg/L		07/31/13 11:35	08/10/13 02:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9000**		11	1.0	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Arsenic	**8.1**		0.55	0.11	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Barium	**29**		0.55	0.059	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Beryllium	**0.56**		0.22	0.019	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Cadmium	**0.94**	**B**	0.11	0.014	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Calcium	**41000**	**B**	11	3.0	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Chromium	**16**		0.55	0.064	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Cobalt	**12**		0.27	0.020	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Copper	**29**	**B**	0.55	0.049	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Iron	**18000**		11	4.5	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Lead	**22**	**B**	0.27	0.082	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Magnesium	**27000**	**B**	5.5	1.1	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Manganese	**470**	**B**	0.55	0.030	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Nickel	**28**	**B**	0.55	0.054	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Potassium	**2300**		27	1.7	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Selenium	<0.55		0.55	0.19	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Sodium	**2000**	**B**	55	7.4	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Thallium	**0.69**		0.55	0.23	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Vanadium	**18**		0.27	0.041	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1
Zinc	**50**	**B**	1.1	0.22	mg/Kg	☼	07/29/13 12:00	08/09/13 19:25	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.28**		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 12:19	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	**10**	**J**	19	8.7	ug/Kg	☼	08/01/13 14:00	08/02/13 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.57**		0.200	0.200	SU			08/08/13 21:25	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-4(0.5-1.5)-072613
Date Collected: 07/26/13 08:05
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-2
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	☼		08/03/13 06:58	1
Benzene	<5.9		5.9	0.81	ug/Kg	☼		08/03/13 06:58	1
Bromodichloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/03/13 06:58	1
Bromoform	<5.9		5.9	1.4	ug/Kg	☼		08/03/13 06:58	1
Bromomethane	<5.9		5.9	1.8	ug/Kg	☼		08/03/13 06:58	1
Carbon disulfide	<5.9		5.9	0.88	ug/Kg	☼		08/03/13 06:58	1
Carbon tetrachloride	<5.9		5.9	1.1	ug/Kg	☼		08/03/13 06:58	1
Chlorobenzene	<5.9		5.9	0.60	ug/Kg	☼		08/03/13 06:58	1
Chloroethane	<5.9		5.9	1.6	ug/Kg	☼		08/03/13 06:58	1
Chloroform	<5.9		5.9	0.68	ug/Kg	☼		08/03/13 06:58	1
Chloromethane	<5.9		5.9	1.2	ug/Kg	☼		08/03/13 06:58	1
cis-1,2-Dichloroethene	<5.9		5.9	0.84	ug/Kg	☼		08/03/13 06:58	1
cis-1,3-Dichloropropene	<5.9		5.9	0.78	ug/Kg	☼		08/03/13 06:58	1
Dibromochloromethane	<5.9		5.9	1.0	ug/Kg	☼		08/03/13 06:58	1
1,1-Dichloroethane	<5.9		5.9	0.94	ug/Kg	☼		08/03/13 06:58	1
1,2-Dichloroethane	<5.9		5.9	0.88	ug/Kg	☼		08/03/13 06:58	1
1,1-Dichloroethene	<5.9		5.9	0.96	ug/Kg	☼		08/03/13 06:58	1
1,2-Dichloropropane	<5.9		5.9	0.90	ug/Kg	☼		08/03/13 06:58	1
1,3-Dichloropropene, Total	<5.9		5.9	0.78	ug/Kg	☼		08/03/13 06:58	1
Ethylbenzene	<5.9		5.9	1.2	ug/Kg	☼		08/03/13 06:58	1
2-Hexanone	<5.9		5.9	1.7	ug/Kg	☼		08/03/13 06:58	1
Methylene Chloride	<5.9		5.9	1.6	ug/Kg	☼		08/03/13 06:58	1
Methyl Ethyl Ketone	<5.9		5.9	2.1	ug/Kg	☼		08/03/13 06:58	1
methyl isobutyl ketone	<5.9		5.9	1.6	ug/Kg	☼		08/03/13 06:58	1
Methyl tert-butyl ether	<5.9		5.9	0.98	ug/Kg	☼		08/03/13 06:58	1
Styrene	<5.9		5.9	0.78	ug/Kg	☼		08/03/13 06:58	1
1,1,2,2-Tetrachloroethane	<5.9		5.9	1.2	ug/Kg	☼		08/03/13 06:58	1
Tetrachloroethene	<5.9		5.9	0.90	ug/Kg	☼		08/03/13 06:58	1
Toluene	<5.9		5.9	0.83	ug/Kg	☼		08/03/13 06:58	1
trans-1,2-Dichloroethene	<5.9		5.9	0.81	ug/Kg	☼		08/03/13 06:58	1
trans-1,3-Dichloropropene	<5.9		5.9	1.1	ug/Kg	☼		08/03/13 06:58	1
1,1,1-Trichloroethane	<5.9		5.9	0.88	ug/Kg	☼		08/03/13 06:58	1
1,1,2-Trichloroethane	<5.9		5.9	0.81	ug/Kg	☼		08/03/13 06:58	1
Trichloroethene	<5.9		5.9	0.98	ug/Kg	☼		08/03/13 06:58	1
Vinyl chloride	<5.9		5.9	1.2	ug/Kg	☼		08/03/13 06:58	1
Xylenes, Total	<12		12	0.54	ug/Kg	☼		08/03/13 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/03/13 06:58*	*1*
Dibromofluoromethane	*108*		*75 - 120*		*08/03/13 06:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 134*		*08/03/13 06:58*	*1*
Toluene-d8 (Surr)	*102*		*75 - 122*		*08/03/13 06:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	43	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
1,2-Dichlorobenzene	<190		190	41	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
1,3-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
1,4-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2,2'-oxybis[1-chloropropane]	<190		190	42	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-4(0.5-1.5)-072613
Date Collected: 07/26/13 08:05
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-2
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	<370		370	110	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2,4,6-Trichlorophenol	<370		370	47	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2,4-Dimethylphenol	<370		370	120	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2,4-Dinitrophenol	<760	*	760	190	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2,4-Dinitrotoluene	<190		190	58	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2,6-Dinitrotoluene	<190		190	45	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2-Chlorophenol	<190		190	54	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2-Methylnaphthalene	<190		190	49	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2-Methylphenol	<190		190	50	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2-Nitroaniline	<190		190	68	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
2-Nitrophenol	<370		370	59	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
3 & 4 Methylphenol	<190		190	71	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
3-Nitroaniline	<370		370	73	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
4,6-Dinitro-2-methylphenol	<370		370	91	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
4-Bromophenyl phenyl ether	<190		190	42	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
4-Chloroaniline	<760		760	110	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
4-Chlorophenyl phenyl ether	<190		190	59	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
4-Nitroaniline	<370		370	77	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
4-Nitrophenol	<760		760	200	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Acenaphthylene	<37		37	8.7	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Anthracene	<37		37	8.9	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Benzo[a]anthracene	**49**		37	7.9	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Benzo[a]pyrene	**60**		37	6.9	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Benzo[b]fluoranthene	**100**		37	7.3	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Benzo[g,h,i]perylene	**46**		37	13	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Benzo[k]fluoranthene	**43**		37	9.0	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Bis(2-chloroethoxy)methane	<190		190	42	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Bis(2-chloroethyl)ether	<190		190	56	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Bis(2-ethylhexyl) phthalate	<190		190	50	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Butyl benzyl phthalate	<190		190	47	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Carbazole	<190		190	53	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Chrysene	**65**		37	8.5	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Dibenz(a,h)anthracene	<37		37	11	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Dibenzofuran	<190		190	45	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Diethyl phthalate	<190	*	190	63	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Dimethyl phthalate	<190		190	47	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Di-n-butyl phthalate	<190		190	48	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Di-n-octyl phthalate	<190		190	76	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Fluoranthene	**87**		37	15	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Fluorene	<37		37	8.6	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Hexachlorobenzene	<76		76	7.4	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Hexachlorobutadiene	<190		190	49	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Hexachlorocyclopentadiene	<760		760	170	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Hexachloroethane	<190		190	40	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-4(0.5-1.5)-072613
Date Collected: 07/26/13 08:05
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-2
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	37		37	13	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Isophorone	<190		190	42	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Naphthalene	<37		37	7.3	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Nitrobenzene	<37		37	12	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
N-Nitrosodi-n-propylamine	<190		190	48	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
N-Nitrosodiphenylamine	<190		190	51	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Pentachlorophenol	<760		760	190	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Phenanthrene	28	J	37	16	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Phenol	<190		190	60	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1
Pyrene	84		37	14	ug/Kg	☼	08/05/13 09:07	08/11/13 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*76*		*35 - 137*	*08/05/13 09:07*	*08/11/13 21:19*	*1*
2-Fluorobiphenyl	*72*		*30 - 119*	*08/05/13 09:07*	*08/11/13 21:19*	*1*
2-Fluorophenol	*57*		*30 - 110*	*08/05/13 09:07*	*08/11/13 21:19*	*1*
Nitrobenzene-d5	*57*		*30 - 115*	*08/05/13 09:07*	*08/11/13 21:19*	*1*
Phenol-d5	*63*		*31 - 110*	*08/05/13 09:07*	*08/11/13 21:19*	*1*
Terphenyl-d14	*88*		*36 - 134*	*08/05/13 09:07*	*08/11/13 21:19*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/13 08:20	08/09/13 23:09	1
Barium	0.94	B	0.50	0.010	mg/L		08/05/13 08:20	08/09/13 23:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:20	08/09/13 23:09	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:20	08/09/13 23:09	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:09	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 23:09	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:09	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:20	08/09/13 23:09	1
Lead	0.016		0.0075	0.0050	mg/L		08/05/13 08:20	08/09/13 23:09	1
Manganese	1.7		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:09	1
Nickel	0.014	J	0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:20	08/09/13 23:09	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 23:09	1
Zinc	0.47	B	0.10	0.020	mg/L		08/05/13 08:20	08/09/13 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.050	0.010	mg/L		07/31/13 11:35	08/10/13 02:24	1
Barium	1.2		0.50	0.010	mg/L		07/31/13 11:35	08/10/13 02:24	1
Beryllium	0.013		0.0040	0.0040	mg/L		07/31/13 11:35	08/10/13 02:24	1
Cadmium	0.0058		0.0050	0.0020	mg/L		07/31/13 11:35	08/10/13 02:24	1
Chromium	0.29		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:24	1
Cobalt	0.088		0.025	0.0050	mg/L		07/31/13 11:35	08/10/13 02:24	1
Copper	0.40		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:24	1
Iron	320		0.20	0.20	mg/L		07/31/13 11:35	08/10/13 02:24	1
Lead	0.68		0.0075	0.0050	mg/L		07/31/13 11:35	08/10/13 02:24	1
Manganese	1.6		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:24	1
Nickel	0.35		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:24	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 11:35	08/10/13 02:24	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-4(0.5-1.5)-072613
Date Collected: 07/26/13 08:05
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-2
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	0.0050	mg/L		07/31/13 11:35	08/10/13 02:24	1
Zinc	**1.1**		0.10	0.020	mg/L		07/31/13 11:35	08/10/13 02:24	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		12	1.1	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Antimony	<1.2		1.2	0.47	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Arsenic	**8.3**		0.59	0.12	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Barium	**52**		0.59	0.063	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Beryllium	**0.64**		0.23	0.021	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Cadmium	**0.90**	**B**	0.12	0.015	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Calcium	**28000**	**B**	12	3.2	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Chromium	**19**		0.59	0.068	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Cobalt	**9.8**		0.29	0.021	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Copper	**28**	**B**	0.59	0.052	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Iron	**20000**		12	4.8	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Lead	**71**	**B**	0.29	0.087	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Magnesium	**19000**	**B**	5.9	1.2	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Manganese	**380**	**B**	0.59	0.032	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Nickel	**25**	**B**	0.59	0.058	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Potassium	**1900**		29	1.8	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Selenium	<0.59		0.59	0.21	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Silver	<0.29		0.29	0.021	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Sodium	**2400**	**B**	59	7.9	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Thallium	**0.56**	**J**	0.59	0.25	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Vanadium	**21**		0.29	0.043	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1
Zinc	**56**	**B**	1.2	0.24	mg/Kg	☼	07/29/13 12:00	08/09/13 19:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 09:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 12:21	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	**30**		18	8.5	ug/Kg	☼	08/01/13 14:00	08/02/13 09:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.70**		0.200	0.200	SU			08/08/13 21:28	1

Client Sample ID: RS4-5(0.5-1.5)-072613
Date Collected: 07/26/13 08:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-3
Matrix: Solid
Percent Solids: 87.3

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.7		5.7	2.5	ug/Kg	☼		08/03/13 07:21	1
Benzene	<5.7		5.7	0.78	ug/Kg	☼		08/03/13 07:21	1
Bromodichloromethane	<5.7		5.7	0.99	ug/Kg	☼		08/03/13 07:21	1
Bromoform	<5.7		5.7	1.3	ug/Kg	☼		08/03/13 07:21	1
Bromomethane	<5.7		5.7	1.7	ug/Kg	☼		08/03/13 07:21	1
Carbon disulfide	<5.7		5.7	0.86	ug/Kg	☼		08/03/13 07:21	1
Carbon tetrachloride	<5.7		5.7	1.0	ug/Kg	☼		08/03/13 07:21	1
Chlorobenzene	<5.7		5.7	0.58	ug/Kg	☼		08/03/13 07:21	1
Chloroethane	<5.7		5.7	1.6	ug/Kg	☼		08/03/13 07:21	1
Chloroform	<5.7		5.7	0.66	ug/Kg	☼		08/03/13 07:21	1
Chloromethane	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 07:21	1
cis-1,2-Dichloroethene	<5.7		5.7	0.81	ug/Kg	☼		08/03/13 07:21	1
cis-1,3-Dichloropropene	<5.7		5.7	0.75	ug/Kg	☼		08/03/13 07:21	1
Dibromochloromethane	<5.7		5.7	1.0	ug/Kg	☼		08/03/13 07:21	1
1,1-Dichloroethane	<5.7		5.7	0.91	ug/Kg	☼		08/03/13 07:21	1
1,2-Dichloroethane	<5.7		5.7	0.85	ug/Kg	☼		08/03/13 07:21	1
1,1-Dichloroethene	<5.7		5.7	0.93	ug/Kg	☼		08/03/13 07:21	1
1,2-Dichloropropane	<5.7		5.7	0.87	ug/Kg	☼		08/03/13 07:21	1
1,3-Dichloropropene, Total	<5.7		5.7	0.75	ug/Kg	☼		08/03/13 07:21	1
Ethylbenzene	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 07:21	1
2-Hexanone	<5.7		5.7	1.6	ug/Kg	☼		08/03/13 07:21	1
Methylene Chloride	<5.7		5.7	1.5	ug/Kg	☼		08/03/13 07:21	1
Methyl Ethyl Ketone	<5.7		5.7	2.1	ug/Kg	☼		08/03/13 07:21	1
methyl isobutyl ketone	<5.7		5.7	1.5	ug/Kg	☼		08/03/13 07:21	1
Methyl tert-butyl ether	<5.7		5.7	0.95	ug/Kg	☼		08/03/13 07:21	1
Styrene	<5.7		5.7	0.75	ug/Kg	☼		08/03/13 07:21	1
1,1,2,2-Tetrachloroethane	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 07:21	1
Tetrachloroethene	<5.7		5.7	0.88	ug/Kg	☼		08/03/13 07:21	1
Toluene	<5.7		5.7	0.80	ug/Kg	☼		08/03/13 07:21	1
trans-1,2-Dichloroethene	<5.7		5.7	0.79	ug/Kg	☼		08/03/13 07:21	1
trans-1,3-Dichloropropene	<5.7		5.7	1.0	ug/Kg	☼		08/03/13 07:21	1
1,1,1-Trichloroethane	<5.7		5.7	0.86	ug/Kg	☼		08/03/13 07:21	1
1,1,2-Trichloroethane	<5.7		5.7	0.78	ug/Kg	☼		08/03/13 07:21	1
Trichloroethene	<5.7		5.7	0.95	ug/Kg	☼		08/03/13 07:21	1
Vinyl chloride	<5.7		5.7	1.2	ug/Kg	☼		08/03/13 07:21	1
Xylenes, Total	<11		11	0.52	ug/Kg	☼		08/03/13 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*08/03/13 07:21*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*08/03/13 07:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*08/03/13 07:21*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*08/03/13 07:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<7200		7200	1600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
1,2-Dichlorobenzene	<7200		7200	1600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
1,3-Dichlorobenzene	<7200		7200	1500	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
1,4-Dichlorobenzene	<7200		7200	1500	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2,2'-oxybis[1-chloropropane]	<7200		7200	1600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-5(0.5-1.5)-072613
Date Collected: 07/26/13 08:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-3
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<14000		14000	4100	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2,4,6-Trichlorophenol	<14000		14000	1800	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2,4-Dichlorophenol	<14000		14000	4400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2,4-Dimethylphenol	<14000		14000	4500	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2,4-Dinitrophenol	<29000	*	29000	7400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2,4-Dinitrotoluene	<7200		7200	2200	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2,6-Dinitrotoluene	<7200		7200	1700	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2-Chloronaphthalene	<7200		7200	1600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2-Chlorophenol	<7200		7200	2100	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2-Methylnaphthalene	<7200		7200	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2-Methylphenol	<7200		7200	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2-Nitroaniline	<7200		7200	2600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
2-Nitrophenol	<14000		14000	2300	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
3 & 4 Methylphenol	<7200		7200	2700	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
3,3'-Dichlorobenzidine	<7200		7200	1200	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
3-Nitroaniline	<14000		14000	2800	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
4,6-Dinitro-2-methylphenol	<14000		14000	3500	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
4-Bromophenyl phenyl ether	<7200		7200	1600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
4-Chloro-3-methylphenol	<14000		14000	6900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
4-Chloroaniline	<29000		29000	4400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
4-Chlorophenyl phenyl ether	<7200		7200	2300	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
4-Nitroaniline	<14000		14000	2900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
4-Nitrophenol	<29000		29000	7700	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Acenaphthene	<1400		1400	430	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Acenaphthylene	<1400		1400	330	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Anthracene	<1400		1400	340	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Benzo[a]anthracene	**310**	**J**	1400	300	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Benzo[a]pyrene	**400**	**J**	1400	260	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Benzo[b]fluoranthene	**510**	**J**	1400	280	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Benzo[g,h,i]perylene	<1400		1400	480	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Benzo[k]fluoranthene	**350**	**J**	1400	340	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Bis(2-chloroethoxy)methane	<7200		7200	1600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Bis(2-chloroethyl)ether	<7200		7200	2100	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Bis(2-ethylhexyl) phthalate	<7200		7200	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Butyl benzyl phthalate	<7200		7200	1800	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Carbazole	<7200		7200	2000	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Chrysene	**440**	**J**	1400	320	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Dibenz(a,h)anthracene	<1400		1400	400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Dibenzofuran	<7200		7200	1700	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Diethyl phthalate	<7200	*	7200	2400	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Dimethyl phthalate	<7200		7200	1800	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Di-n-butyl phthalate	<7200		7200	1800	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Di-n-octyl phthalate	<7200		7200	2900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Fluoranthene	<1400		1400	590	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Fluorene	<1400		1400	330	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Hexachlorobenzene	<2900		2900	280	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Hexachlorobutadiene	<7200		7200	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Hexachlorocyclopentadiene	<29000		29000	6700	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Hexachloroethane	<7200		7200	1500	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-5(0.5-1.5)-072613
Date Collected: 07/26/13 08:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-3
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<1400		1400	480	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Isophorone	<7200		7200	1600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Naphthalene	<1400		1400	280	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Nitrobenzene	<1400		1400	450	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
N-Nitrosodi-n-propylamine	<7200		7200	1800	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
N-Nitrosodiphenylamine	<7200		7200	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Pentachlorophenol	<29000		29000	7300	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Phenanthrene	<1400		1400	600	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Phenol	<7200		7200	2300	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10
Pyrene	<1400		1400	520	ug/Kg	☼	08/05/13 09:07	08/11/13 21:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*35 - 137*	*08/05/13 09:07*	*08/11/13 21:38*	*10*
2-Fluorobiphenyl	*78*		*30 - 119*	*08/05/13 09:07*	*08/11/13 21:38*	*10*
2-Fluorophenol	*62*		*30 - 110*	*08/05/13 09:07*	*08/11/13 21:38*	*10*
Nitrobenzene-d5	*48*		*30 - 115*	*08/05/13 09:07*	*08/11/13 21:38*	*10*
Phenol-d5	*61*		*31 - 110*	*08/05/13 09:07*	*08/11/13 21:38*	*10*
Terphenyl-d14	*92*		*36 - 134*	*08/05/13 09:07*	*08/11/13 21:38*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/05/13 08:20	08/09/13 23:15	1
Barium	**0.76**	**B**	0.50	0.010	mg/L		08/05/13 08:20	08/09/13 23:15	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:20	08/09/13 23:15	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		08/05/13 08:20	08/09/13 23:15	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:15	1
Cobalt	**0.016**	**J**	0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 23:15	1
Copper	**0.010**	**J**	0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:15	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:20	08/09/13 23:15	1
Lead	**0.0071**	**J**	0.0075	0.0050	mg/L		08/05/13 08:20	08/09/13 23:15	1
Manganese	**3.6**		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:15	1
Nickel	**0.023**	**J**	0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:15	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:20	08/09/13 23:15	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 23:15	1
Zinc	**0.52**	**B**	0.10	0.020	mg/L		08/05/13 08:20	08/09/13 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/31/13 11:35	08/10/13 02:31	1
Barium	**0.55**		0.50	0.010	mg/L		07/31/13 11:35	08/10/13 02:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/31/13 11:35	08/10/13 02:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/31/13 11:35	08/10/13 02:31	1
Chromium	**0.022**	**J**	0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:31	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/31/13 11:35	08/10/13 02:31	1
Copper	**0.033**		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:31	1
Iron	**14**		0.20	0.20	mg/L		07/31/13 11:35	08/10/13 02:31	1
Lead	**0.026**		0.0075	0.0050	mg/L		07/31/13 11:35	08/10/13 02:31	1
Manganese	**0.14**		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:31	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:31	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 11:35	08/10/13 02:31	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-5(0.5-1.5)-072613
Date Collected: 07/26/13 08:15
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-3
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	0.0050	mg/L		07/31/13 11:35	08/10/13 02:31	1
Zinc	**0.44**		0.10	0.020	mg/L		07/31/13 11:35	08/10/13 02:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2600**		11	1.0	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Arsenic	**2.6**		0.57	0.11	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Barium	**30**		0.57	0.061	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Beryllium	**0.29**		0.23	0.020	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Cadmium	**0.90**	**B**	0.11	0.014	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Calcium	**120000**	**B**	110	31	mg/Kg	☼	07/29/13 12:00	08/11/13 01:44	10
Chromium	**39**		0.57	0.066	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Cobalt	**2.5**		0.28	0.020	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Copper	**33**	**B**	0.57	0.050	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Iron	**9700**		11	4.7	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Lead	**47**	**B**	0.28	0.084	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Magnesium	**56000**	**B**	5.7	1.2	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Manganese	**930**	**B**	5.7	0.31	mg/Kg	☼	07/29/13 12:00	08/11/13 01:44	10
Nickel	**9.2**	**B**	0.57	0.056	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Potassium	**660**		28	1.7	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Silver	**0.064**	**J**	0.28	0.021	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Sodium	**1000**	**B**	57	7.6	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Thallium	<0.57		0.57	0.24	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Vanadium	**33**		0.28	0.042	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1
Zinc	**78**	**B**	1.1	0.23	mg/Kg	☼	07/29/13 12:00	08/09/13 19:38	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 12:23	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	**11**	**J**	18	8.5	ug/Kg	☼	08/01/13 14:00	08/02/13 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.84**		0.200	0.200	SU			08/08/13 21:32	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-7(0.5-1.5)-072613
Date Collected: 07/26/13 08:40
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-5
Matrix: Solid
Percent Solids: 95.5

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.2		5.2	2.3	ug/Kg	☼		08/03/13 08:09	1
Benzene	<5.2		5.2	0.72	ug/Kg	☼		08/03/13 08:09	1
Bromodichloromethane	<5.2		5.2	0.90	ug/Kg	☼		08/03/13 08:09	1
Bromoform	<5.2		5.2	1.2	ug/Kg	☼		08/03/13 08:09	1
Bromomethane	<5.2		5.2	1.6	ug/Kg	☼		08/03/13 08:09	1
Carbon disulfide	<5.2		5.2	0.78	ug/Kg	☼		08/03/13 08:09	1
Carbon tetrachloride	<5.2		5.2	0.95	ug/Kg	☼		08/03/13 08:09	1
Chlorobenzene	<5.2		5.2	0.53	ug/Kg	☼		08/03/13 08:09	1
Chloroethane	<5.2		5.2	1.4	ug/Kg	☼		08/03/13 08:09	1
Chloroform	<5.2		5.2	0.60	ug/Kg	☼		08/03/13 08:09	1
Chloromethane	<5.2		5.2	1.1	ug/Kg	☼		08/03/13 08:09	1
cis-1,2-Dichloroethene	<5.2		5.2	0.74	ug/Kg	☼		08/03/13 08:09	1
cis-1,3-Dichloropropene	<5.2		5.2	0.69	ug/Kg	☼		08/03/13 08:09	1
Dibromochloromethane	<5.2		5.2	0.91	ug/Kg	☼		08/03/13 08:09	1
1,1-Dichloroethane	<5.2		5.2	0.83	ug/Kg	☼		08/03/13 08:09	1
1,2-Dichloroethane	<5.2		5.2	0.78	ug/Kg	☼		08/03/13 08:09	1
1,1-Dichloroethene	<5.2		5.2	0.85	ug/Kg	☼		08/03/13 08:09	1
1,2-Dichloropropane	<5.2		5.2	0.80	ug/Kg	☼		08/03/13 08:09	1
1,3-Dichloropropene, Total	<5.2		5.2	0.69	ug/Kg	☼		08/03/13 08:09	1
Ethylbenzene	<5.2		5.2	1.1	ug/Kg	☼		08/03/13 08:09	1
2-Hexanone	<5.2		5.2	1.5	ug/Kg	☼		08/03/13 08:09	1
Methylene Chloride	<5.2		5.2	1.4	ug/Kg	☼		08/03/13 08:09	1
Methyl Ethyl Ketone	<5.2		5.2	1.9	ug/Kg	☼		08/03/13 08:09	1
methyl isobutyl ketone	<5.2		5.2	1.4	ug/Kg	☼		08/03/13 08:09	1
Methyl tert-butyl ether	<5.2		5.2	0.87	ug/Kg	☼		08/03/13 08:09	1
Styrene	<5.2		5.2	0.69	ug/Kg	☼		08/03/13 08:09	1
1,1,2,2-Tetrachloroethane	<5.2		5.2	1.1	ug/Kg	☼		08/03/13 08:09	1
Tetrachloroethene	<5.2		5.2	0.80	ug/Kg	☼		08/03/13 08:09	1
Toluene	<5.2		5.2	0.73	ug/Kg	☼		08/03/13 08:09	1
trans-1,2-Dichloroethene	<5.2		5.2	0.72	ug/Kg	☼		08/03/13 08:09	1
trans-1,3-Dichloropropene	<5.2		5.2	0.94	ug/Kg	☼		08/03/13 08:09	1
1,1,1-Trichloroethane	<5.2		5.2	0.78	ug/Kg	☼		08/03/13 08:09	1
1,1,2-Trichloroethane	<5.2		5.2	0.71	ug/Kg	☼		08/03/13 08:09	1
Trichloroethene	<5.2		5.2	0.86	ug/Kg	☼		08/03/13 08:09	1
Vinyl chloride	<5.2		5.2	1.1	ug/Kg	☼		08/03/13 08:09	1
Xylenes, Total	<10		10	0.47	ug/Kg	☼		08/03/13 08:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*08/03/13 08:09*	*1*
Dibromofluoromethane	*113*		*75 - 120*		*08/03/13 08:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/03/13 08:09*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/03/13 08:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3400		3400	770	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
1,2-Dichlorobenzene	<3400		3400	740	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
1,3-Dichlorobenzene	<3400		3400	710	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
1,4-Dichlorobenzene	<3400		3400	710	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2,2'-oxybis[1-chloropropane]	<3400		3400	750	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-7(0.5-1.5)-072613
Date Collected: 07/26/13 08:40
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-5
Matrix: Solid
Percent Solids: 95.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<6800		6800	1900	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2,4,6-Trichlorophenol	<6800		6800	850	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2,4-Dichlorophenol	<6800		6800	2100	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2,4-Dimethylphenol	<6800		6800	2100	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2,4-Dinitrophenol	<14000	*	14000	3500	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2,4-Dinitrotoluene	<3400		3400	1000	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2,6-Dinitrotoluene	<3400		3400	810	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2-Chloronaphthalene	<3400		3400	770	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2-Chlorophenol	<3400		3400	970	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2-Methylnaphthalene	<3400		3400	880	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2-Methylphenol	<3400		3400	900	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2-Nitroaniline	<3400		3400	1200	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
2-Nitrophenol	<6800		6800	1100	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
3 & 4 Methylphenol	<3400		3400	1300	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
3,3'-Dichlorobenzidine	<3400		3400	570	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
3-Nitroaniline	<6800		6800	1300	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
4,6-Dinitro-2-methylphenol	<6800		6800	1700	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
4-Bromophenyl phenyl ether	<3400		3400	760	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
4-Chloro-3-methylphenol	<6800		6800	3300	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
4-Chloroaniline	<14000		14000	2100	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
4-Chlorophenyl phenyl ether	<3400		3400	1100	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
4-Nitroaniline	<6800		6800	1400	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
4-Nitrophenol	<14000		14000	3700	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Acenaphthene	<680		680	200	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Acenaphthylene	<680		680	160	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Anthracene	<680		680	160	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Benzo[a]anthracene	**380**	**J**	680	140	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Benzo[a]pyrene	**450**	**J**	680	120	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Benzo[b]fluoranthene	**690**		680	130	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Benzo[g,h,i]perylene	**360**	**J**	680	230	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Benzo[k]fluoranthene	**280**	**J**	680	160	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Bis(2-chloroethoxy)methane	<3400		3400	750	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Bis(2-chloroethyl)ether	<3400		3400	1000	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Bis(2-ethylhexyl) phthalate	<3400		3400	900	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Butyl benzyl phthalate	<3400		3400	850	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Carbazole	<3400		3400	960	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Chrysene	**500**	**J**	680	150	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Dibenz(a,h)anthracene	<680		680	190	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Dibenzofuran	<3400		3400	820	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Diethyl phthalate	<3400	*	3400	1100	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Dimethyl phthalate	<3400		3400	850	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Di-n-butyl phthalate	<3400		3400	860	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Di-n-octyl phthalate	<3400		3400	1400	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Fluoranthene	**670**	**J**	680	280	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Fluorene	<680		680	150	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Hexachlorobenzene	<1400		1400	130	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Hexachlorobutadiene	<3400		3400	890	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Hexachlorocyclopentadiene	<14000		14000	3200	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Hexachloroethane	<3400		3400	730	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5

Client Sample ID: RS4-7(0.5-1.5)-072613
Date Collected: 07/26/13 08:40
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-5
Matrix: Solid
Percent Solids: 95.5

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	320	J	680	230	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Isophorone	<3400		3400	760	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Naphthalene	<680		680	130	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Nitrobenzene	<680		680	210	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
N-Nitrosodi-n-propylamine	<3400		3400	860	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
N-Nitrosodiphenylamine	<3400		3400	920	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Pentachlorophenol	<14000		14000	3500	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Phenanthrene	<680		680	280	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Phenol	<3400		3400	1100	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5
Pyrene	660	J	680	250	ug/Kg	☼	08/05/13 09:07	08/11/13 22:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*35 - 137*	*08/05/13 09:07*	*08/11/13 22:14*	*5*
2-Fluorobiphenyl	*79*		*30 - 119*	*08/05/13 09:07*	*08/11/13 22:14*	*5*
2-Fluorophenol	*59*		*30 - 110*	*08/05/13 09:07*	*08/11/13 22:14*	*5*
Nitrobenzene-d5	*50*		*30 - 115*	*08/05/13 09:07*	*08/11/13 22:14*	*5*
Phenol-d5	*65*		*31 - 110*	*08/05/13 09:07*	*08/11/13 22:14*	*5*
Terphenyl-d14	*90*		*36 - 134*	*08/05/13 09:07*	*08/11/13 22:14*	*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		08/05/13 08:20	08/09/13 23:28	1
Barium	0.94	B	0.50	0.010	mg/L		08/05/13 08:20	08/09/13 23:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/05/13 08:20	08/09/13 23:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/05/13 08:20	08/09/13 23:28	1
Chromium	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:28	1
Cobalt	0.0050	J	0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 23:28	1
Copper	<0.025		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:28	1
Iron	<0.20		0.20	0.20	mg/L		08/05/13 08:20	08/09/13 23:28	1
Lead	0.017		0.0075	0.0050	mg/L		08/05/13 08:20	08/09/13 23:28	1
Manganese	1.4		0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:28	1
Nickel	0.016	J	0.025	0.010	mg/L		08/05/13 08:20	08/09/13 23:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/05/13 08:20	08/09/13 23:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/05/13 08:20	08/09/13 23:28	1
Zinc	0.58	B	0.10	0.020	mg/L		08/05/13 08:20	08/09/13 23:28	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		07/31/13 11:35	08/10/13 02:44	1
Barium	0.50		0.50	0.010	mg/L		07/31/13 11:35	08/10/13 02:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/31/13 11:35	08/10/13 02:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/31/13 11:35	08/10/13 02:44	1
Chromium	0.014	J	0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:44	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/31/13 11:35	08/10/13 02:44	1
Copper	0.020	J	0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:44	1
Iron	5.2		0.20	0.20	mg/L		07/31/13 11:35	08/10/13 02:44	1
Lead	0.047		0.0075	0.0050	mg/L		07/31/13 11:35	08/10/13 02:44	1
Manganese	0.074		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:44	1
Nickel	<0.025		0.025	0.010	mg/L		07/31/13 11:35	08/10/13 02:44	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 11:35	08/10/13 02:44	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

Client Sample ID: RS4-7(0.5-1.5)-072613
Date Collected: 07/26/13 08:40
Date Received: 07/26/13 15:35

Lab Sample ID: 500-59939-5
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	0.0050	mg/L		07/31/13 11:35	08/10/13 02:44	1
Zinc	**0.40**		0.10	0.020	mg/L		07/31/13 11:35	08/10/13 02:44	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2500**		10	0.94	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Antimony	<1.0		1.0	0.41	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Arsenic	**2.4**		0.51	0.10	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Barium	**26**		0.51	0.055	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Beryllium	**0.24**		0.21	0.018	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Cadmium	**0.94**	**B**	0.10	0.013	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Calcium	**120000**	**B**	100	28	mg/Kg	☼	07/29/13 12:00	08/11/13 01:56	10
Chromium	**23**		0.51	0.060	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Cobalt	**2.9**		0.26	0.018	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Copper	**32**	**B**	0.51	0.046	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Iron	**11000**		10	4.2	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Lead	**79**	**B**	0.26	0.076	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Magnesium	**69000**	**B**	51	11	mg/Kg	☼	07/29/13 12:00	08/11/13 01:56	10
Manganese	**360**	**B**	0.51	0.028	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Nickel	**9.3**	**B**	0.51	0.050	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Potassium	**650**		26	1.5	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Selenium	<0.51		0.51	0.18	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Silver	**0.030**	**J**	0.26	0.019	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Sodium	**1100**	**B**	51	6.9	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Thallium	<0.51		0.51	0.22	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Vanadium	**13**		0.26	0.038	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1
Zinc	**78**	**B**	1.0	0.21	mg/Kg	☼	07/29/13 12:00	08/09/13 19:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/05/13 16:00	08/06/13 09:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 12:35	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	**13**	**J**	16	7.4	ug/Kg	☼	08/01/13 14:00	08/02/13 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.89**		0.200	0.200	SU			08/08/13 21:39	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.
F	MS or MSD 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.
F	MS or MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
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.

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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59939-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.8

500-59939 COC

(optional)

Report To
Contact: S. Balaswamy
Company: Weston
Address: 750 E Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59939

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 4.5

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / 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	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
1		RS4-3(0.5-1.5)-072613	7-26-12	0750	2	S		X	X	X	X	X					
2		RS4-4 (0.5-1.5)-072613		0805													
3		RS4-5(0.5-1.5)-072613		0815													
4		RS4-6(0.5-1.5)-072613		0825													
5		RS4-7(0.5-1.5)-072613		0840													
6		RS4-8(0.5-1.5)-072613		0900													
7		RS4-8(0.5-1.5)-072613Dup		0900				X	X	X	X	X					
8		AG-1(0.5-1.5)-072613		0915				X	X	X	X	X	X	X			
9		AG-2(0.5-1.5)-072613		0925				X	X	X	X	X	X	X			
10		AG-3(0.5-1.5)-072613	7-26-13	0935	2	S		X	X	X	X	X	X	X			

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

Sample Disposal
[ ] Return to Client [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	Weston	7-26-13	1535		TAL	7-26-13	1535
	TAL	7-26-13	1728		TA	7/26/13	1710

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:

8/12/2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Report To (optional)
Contact: S. Barbusukura
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59939
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler:

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP Metals	PH	Herbicides	Pesticides			Comments
11		AG-4(0.5-1.5)-072613	7-26-13	0950	2	S	X	X	X	X	X	X	X			
12		VL2-1(0.5-1.5)-072613	↓	1005	↓	↓	X	X	X	X	X					
13		VL2-2(0.5-1.5)-072613	↓	1015	↓	↓	↓	↓	↓	↓	↓					
14		VL2-3(0.5-1.5)-072613	↓	1030	↓	↓	↓	↓	↓	↓	↓					
15		VL2-4(0.5-1.5)-072613	↓	1040	↓	↓	↓	↓	↓	↓	↓					
16		VL2-5(0.5-1.5)-072613	↓	1050	↓	↓	↓	↓	↓	↓	↓					
17		VL2-6(0.5-1.5)-072613	↓	1100	↓	↓	↓	↓	↓	↓	↓					
18		VL2-7(0.5-1.5)-072613	↓	1120	↓	↓	↓	↓	↓	↓	↓					
19		VL2-8(0.5-1.5)-072613	↓	1135	↓	↓	↓	↓	↓	↓	↓					
20		VL2-8(0.5-1.5)-072613 Dup	7-26-13	1135	2	S	X	X	X	X	X					

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
T. Walls	Weston	7-26-13	1535	[signature]	TAL	7-26-13	1535
[signature]	TAL	7-26-13	1708	[signature]	TA	7/26/13	1710

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

 TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
21100 block of Rand Road

City: Deer Park State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.170980129 (Decimal Degrees) Longitude: -88.070797974 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.170980129 Longitude: -88.070797974

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION WD3-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-55. SEE FIGURE 3-4 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: 500-59848-1.

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 Transporation

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:

7/8/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-55
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	WD3-2(0.5-1.5)-072513	**Soil Reference Concentrations[A]**
Sample Date	7/25/2013	
Location ID	WD3-2	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.8	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	13 J	900 / 1100 / 1800
Benzo(a)pyrene	12 J	90 / 1300 / 2100
Benzo(b)fluoranthene	17 J	900 / 1500 / 2100
Chrysene	17 J	88000
Fluoranthene	26 J	3100000
Phenanthrene	17 J	---
Pyrene	27 J	2300000
TCL Metals (mg/kg)		
Aluminum, Total	11000	---
Arsenic, Total	8.7	11.3 / 13
Barium, Total	41	1500
Beryllium, Total	0.61	22
Cadmium, Total	0.73 B	5.2
Calcium, Total	33000 B	---
Chromium, Total	16	21
Cobalt, Total	11	20
Copper, Total	31	2900
Iron, Total	20000	15000 / 15900
Lead, Total	52	107
Magnesium, Total	21000 B	325000
Manganese, Total	390 B	630
Mercury, Total	0.039	0.89
Nickel, Total	28 B	100
Potassium, Total	2100	---
Sodium, Total	1900 B	---
Thallium, Total	0.35 J	2.6
Vanadium, Total	19	550
Zinc, Total	63 B	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.89 B	2
Cadmium, TCLP	0.002 J	0.005
Cobalt, TCLP	0.0077 J	1
Copper, TCLP	0.035	0.65
Lead, TCLP	0.012	0.0075
Manganese, TCLP	2.7	0.15
Nickel, TCLP	0.017 J	0.1
Zinc, TCLP	0.4 B	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.078	0.05
Barium, SPLP	0.72	2
Beryllium, SPLP	0.0074	0.004
Cadmium, SPLP	0.0023 J	0.005
Chromium, SPLP	0.15	0.1
Cobalt, SPLP	0.08	1
Copper, SPLP	0.23	0.65
Iron, SPLP	170	5
Lead, SPLP	0.28	0.0075
Manganese, SPLP	1.5	0.15
Mercury, SPLP	0.00018 J	0.002
Nickel, SPLP	0.23	0.1
Zinc, SPLP	0.9	5

Summary Table of ISGS Site No. 2664-55
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59848-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:32:45 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client Sample ID: WD3-2(0.5-1.5)-072513
Date Collected: 07/25/13 11:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-17
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	☼		08/02/13 13:30	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		08/02/13 13:30	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/02/13 13:30	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/02/13 13:30	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		08/02/13 13:30	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		08/02/13 13:30	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/02/13 13:30	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/02/13 13:30	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/02/13 13:30	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		08/02/13 13:30	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 13:30	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		08/02/13 13:30	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		08/02/13 13:30	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/02/13 13:30	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		08/02/13 13:30	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/02/13 13:30	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		08/02/13 13:30	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		08/02/13 13:30	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		08/02/13 13:30	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 13:30	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/02/13 13:30	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/02/13 13:30	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/02/13 13:30	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/02/13 13:30	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		08/02/13 13:30	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		08/02/13 13:30	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 13:30	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		08/02/13 13:30	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		08/02/13 13:30	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		08/02/13 13:30	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/02/13 13:30	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/02/13 13:30	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		08/02/13 13:30	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		08/02/13 13:30	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/02/13 13:30	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/02/13 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*08/02/13 13:30*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*08/02/13 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 134*		*08/02/13 13:30*	*1*
Toluene-d8 (Surr)	*103*		*75 - 122*		*08/02/13 13:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	42	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
1,3-Dichlorobenzene	<180		180	39	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
1,4-Dichlorobenzene	<180		180	39	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: WD3-2(0.5-1.5)-072513
Date Collected: 07/25/13 11:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-17
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	<370		370	110	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2,4,6-Trichlorophenol	<370		370	46	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2,4-Dimethylphenol	<370	*	370	120	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2,4-Dinitrophenol	<740		740	190	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2,6-Dinitrotoluene	<180		180	44	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2-Chlorophenol	<180		180	53	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2-Methylnaphthalene	<180		180	48	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2-Methylphenol	<180		180	49	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2-Nitroaniline	<180		180	66	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
3 & 4 Methylphenol	<180		180	70	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
3,3'-Dichlorobenzidine	<180		180	31	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
3-Nitroaniline	<370		370	71	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
4,6-Dinitro-2-methylphenol	<370		370	89	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
4-Chloro-3-methylphenol	<370	*	370	180	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
4-Chlorophenyl phenyl ether	<180	*	180	58	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
4-Nitroaniline	<370		370	75	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Acenaphthene	<37		37	11	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Acenaphthylene	<37		37	8.4	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Anthracene	<37		37	8.6	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Benzo[a]anthracene	**13**	**J**	37	7.7	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Benzo[a]pyrene	**12**	**J**	37	6.7	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Benzo[b]fluoranthene	**17**	**J**	37	7.1	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Benzo[g,h,i]perylene	<37		37	12	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Benzo[k]fluoranthene	<37		37	8.8	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Bis(2-chloroethoxy)methane	<180		180	41	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Bis(2-ethylhexyl) phthalate	<180		180	49	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Butyl benzyl phthalate	<180		180	46	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Carbazole	<180		180	52	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Chrysene	**17**	**J**	37	8.3	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Dibenz(a,h)anthracene	<37		37	10	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Dibenzofuran	<180		180	44	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Diethyl phthalate	<180	*	180	61	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Di-n-octyl phthalate	<180		180	75	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Fluoranthene	**26**	**J**	37	15	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Fluorene	<37		37	8.4	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Hexachlorobenzene	<74		74	7.2	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Hexachloroethane	<180		180	39	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: WD3-2(0.5-1.5)-072513
Date Collected: 07/25/13 11:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-17
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	<37		37	12	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Isophorone	<180		180	41	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Naphthalene	<37		37	7.1	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Nitrobenzene	<37		37	11	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
N-Nitrosodi-n-propylamine	<180		180	47	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
N-Nitrosodiphenylamine	<180		180	50	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Phenanthrene	**17**	**J**	37	15	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Phenol	<180		180	58	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1
Pyrene	**27**	**J**	37	13	ug/Kg	☼	08/02/13 08:45	08/09/13 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*46*		*35 - 137*	*08/02/13 08:45*	*08/09/13 11:22*	*1*
2-Fluorobiphenyl	*41*		*30 - 119*	*08/02/13 08:45*	*08/09/13 11:22*	*1*
2-Fluorophenol	*34*		*30 - 110*	*08/02/13 08:45*	*08/09/13 11:22*	*1*
Nitrobenzene-d5	*33*		*30 - 115*	*08/02/13 08:45*	*08/09/13 11:22*	*1*
Phenol-d5	*36*		*31 - 110*	*08/02/13 08:45*	*08/09/13 11:22*	*1*
Terphenyl-d14	*57*		*36 - 134*	*08/02/13 08:45*	*08/09/13 11:22*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/01/13 09:30	08/09/13 06:09	1
Barium	**0.89**	**B**	0.50	0.010	mg/L		08/01/13 09:30	08/09/13 06:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/13 09:30	08/09/13 06:09	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		08/01/13 09:30	08/09/13 06:09	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:09	1
Cobalt	**0.0077**	**J**	0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 06:09	1
Copper	**0.035**		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:09	1
Iron	<0.20		0.20	0.20	mg/L		08/01/13 09:30	08/09/13 06:09	1
Lead	**0.012**		0.0075	0.0050	mg/L		08/01/13 09:30	08/09/13 06:09	1
Manganese	**2.7**		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:09	1
Nickel	**0.017**	**J**	0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:09	1
Selenium	<0.050		0.050	0.010	mg/L		08/01/13 09:30	08/09/13 06:09	1
Silver	<0.025		0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 06:09	1
Zinc	**0.40**	**B**	0.10	0.020	mg/L		08/01/13 09:30	08/09/13 06:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.078**		0.050	0.010	mg/L		07/30/13 10:00	08/08/13 02:54	1
Barium	**0.72**		0.50	0.010	mg/L		07/30/13 10:00	08/08/13 02:54	1
Beryllium	**0.0074**		0.0040	0.0040	mg/L		07/30/13 10:00	08/08/13 02:54	1
Cadmium	**0.0023**	**J**	0.0050	0.0020	mg/L		07/30/13 10:00	08/08/13 02:54	1
Chromium	**0.15**		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:54	1
Cobalt	**0.080**		0.025	0.0050	mg/L		07/30/13 10:00	08/08/13 02:54	1
Copper	**0.23**		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:54	1
Iron	**170**		0.20	0.20	mg/L		07/30/13 10:00	08/08/13 02:54	1
Lead	**0.28**		0.0075	0.0050	mg/L		07/30/13 10:00	08/08/13 02:54	1
Manganese	**1.5**		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:54	1
Nickel	**0.23**		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 02:54	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:00	08/08/13 02:54	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: WD3-2(0.5-1.5)-072513
Date Collected: 07/25/13 11:05
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-17
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	0.0050	mg/L		07/30/13 10:00	08/08/13 02:54	1
Zinc	**0.90**		0.10	0.020	mg/L		07/30/13 10:00	08/08/13 02:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11000**		11	1.0	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Antimony	<1.1		1.1	0.45	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Arsenic	**8.7**		0.56	0.11	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Barium	**41**		0.56	0.060	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Beryllium	**0.61**		0.23	0.020	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Cadmium	**0.73**	**B**	0.11	0.014	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Calcium	**33000**	**B**	11	3.1	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Chromium	**16**		0.56	0.065	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Cobalt	**11**		0.28	0.020	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Copper	**31**		0.56	0.050	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Iron	**20000**		11	4.6	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Lead	**52**		0.28	0.084	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Magnesium	**21000**	**B**	5.6	1.2	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Manganese	**390**	**B**	0.56	0.031	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Nickel	**28**	**B**	0.56	0.055	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Potassium	**2100**		28	1.7	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Selenium	<0.56		0.56	0.20	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Silver	<0.28		0.28	0.020	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Sodium	**1900**	**B**	56	7.5	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Thallium	**0.35**	**J**	0.56	0.24	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Vanadium	**19**		0.28	0.042	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1
Zinc	**63**	**B**	1.1	0.23	mg/Kg	☼	07/26/13 10:24	08/09/13 09:29	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/01/13 15:00	08/02/13 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**J**	0.20	0.020	ug/L		07/30/13 15:45	07/31/13 13:17	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	**39**		18	8.6	ug/Kg	☼	07/30/13 17:45	07/31/13 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.80**		0.200	0.200	SU			08/08/13 20:45	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
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.

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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL T[ESTING]

2417 Bond Street, University Park, IL 6048[4]
Phone: 708.534.5200 Fax: 708.534.5[211]

500-59848 COC

Report To (optional)
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59848
Chain of Custody Number:
Page 1 of 4
Temperature °C of Cooler: 3.6, 4.0

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich / 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	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
1		WD2-4(0.5-1.5)-072513	7-25-13	0735	2	S	X	X	X	X	X	X	X			
2		RS-1(0.5-1.5)-072513	↓	0750	↓	↓	X	X	X	X	X					
3		RS2-1(0.5-1.5)-072513	↓	0805	↓	↓	↓	↓	↓	↓	↓					
4		RS2-2(0.5-1.5)-072513	↓	0815	↓	↓	↓	↓	↓	↓	↓					
5		SM8-1(0.5-1.5)-072513	↓	0830	↓	↓	↓	↓	↓	↓	↓					
6		SM8-2(0.5-1.5)-072513	↓	0840	↓	↓	↓	↓	↓	↓	↓					
7		CB-1(0.5-1.5)-072513	↓	0850	↓	↓	↓	↓	↓	↓	↓					
8		CB-2(0.5-1.5)-072513	↓	0900	↓	↓	↓	↓	↓	↓	↓					
9		RS3-1(0.5-1.5)-072513	↓	0915	↓	↓	↓	↓	↓	↓	↓					
10		RS3-1(0.5-1.5)-072513 Dup	7-25-13	0915	2	S	X	X	X	X	X					

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

Sample Disposal
[ ] Return to Client [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	7-25-13	1535	Dale Matter	TA	7-25-13	1535
Dale Matter	TA	7-25-13	1729	Sherri Scott	TA-CHI	7/25/13	1729

Lab Courier: T.A.
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59848
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.6, 4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / IL
Lab Project #:
Sampler: T. Walls
Lab PM: D Wright

Preservative / Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH					Comments
11		RS3-2(0.5-1.5)-072513	7-25-13	0935	2	S	X	X	X	X	X					
12		RS3-3(0.5-1.5)-072513		0950												
13		RS3-4(0.5-1.5)-072513		1005												
14		RS3-5(0.5-1.5)-072513		1015												
15		RS3-6(0.5-1.5)-072513		1030												
16		WD3-1(0.5-1.5)-072513		1050												
17		WD3-2(0.5-1.5)-072513		1105												
18		WD3-3(0.5-1.5)-072513		1115												
19		BZ-1(0.5-1.5)-072513		1135												
20		BZ-1(0.5-1.5)-072513Dup	7-25-13	1135	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 [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
Tim A. Walls	Weston	7-25-13	1535	Dale Matter	TA	7-25-13	1535
Dale Matter	TA	7-25-13	1729	Sherri Scott	TA-CHI	7/25/13	1729
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:

TAL-4124-500 (1209)

8/12/2013

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
21080 N. Rand Road

City: Deer Park State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.169553975 (Decimal Degrees) Longitude: -88.069568885 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.169553975 Longitude: -88.069568885

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 BZ-1 AND BZ-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-56. SEE FIGURE 3-5 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: 500-59848-1.
TEST AMERICA ANALYTICAL REPORT - JOB ID: 500-59849-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-56
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	BZ-1(0.5-1.5)-072513	BZ-1(0.5-1.5)-072513D	BZ-2(0.5-1.5)-072513	Soil Reference Concentrations[A]
Sample Date	7/25/2013	7/25/2013	7/25/2013	
Location ID	BZ-1	BZ-1	BZ-2	
Depth	0.5 - 1.5	0.5 - 1.5	0.5 - 1.5	
Parameter				
Laboratory pH	8.86	8.89	8.96	<6.25,.9.0
VOCs (ug/kg)	None Detected			
SVOCs (ug/kg)				
Benzo(a)anthracene	820	720	29 J	900 / 1100 / 1800
Benzo(a)pyrene	930	830	37 J	90 / 1300 / 2100
Benzo(b)fluoranthene	1600	1300	56	900 / 1500 / 2100
Benzo(g,h,i)perylene	780	900	44	---
Benzo(k)fluoranthene	530 J	510 J	17 J	9000
Chrysene	1000	880	45	88000
Dibenzo(a,h)anthracene	ND	ND	11 J	90 / 200 / 420
Fluoranthene	2000	1500	68	3100000
Indeno(1,2,3-cd)pyrene	620 J	650 J	34 J	900 / 900 / 1600
Phenanthrene	810	610 J	24 J	---
Pyrene	1500	1300	65	2300000
TCL Metals (mg/kg)				
Aluminum, Total	4300 J	10000 J	7500 J	---
Antimony, Total	ND	0.46 J	ND	5
Arsenic, Total	4	5.9	6.4 J	11.3 / 13
Barium, Total	63	64	46 J	1500
Beryllium, Total	0.37 J	0.73 J	0.47	22
Cadmium, Total	1.2 J	0.71 J	0.81 J	5.2
Calcium, Total	92000 J	30000 J	86000 B	---
Chromium, Total	25	17	13 J	21
Cobalt, Total	3.7 J	7.1 J	7.7 J	20
Copper, Total	65	30	37 J	2900
Iron, Total	15000	17000	16000 J	15000 / 15900
Lead, Total	43	44	12 J+	107
Magnesium, Total	44000 J	18000 J	41000 J	325000
Manganese, Total	400 B	520 B	420 J	630
Mercury, Total	0.023	0.026	ND	0.89
Nickel, Total	16 B	20 B	20 J	100
Potassium, Total	870 J	1600 J	2000 J	---
Silver, Total	0.025 J	ND	ND	4.4
Sodium, Total	620 J	1700 J	1300 J	---
Thallium, Total	ND	0.43 J	0.33 J	2.6
Vanadium, Total	16	19	19 J	550
Zinc, Total	98 B	72 B	48 J	5100
TCLP Metals (mg/l)				
Barium, TCLP	0.89 B	0.49 J	0.69	2
Cadmium, TCLP	0.0022 J	ND	ND	0.005
Copper, TCLP	0.02 J	0.011 J	ND	0.65
Manganese, TCLP	1.1	0.66	1.4	0.15
Nickel, TCLP	ND	ND	0.017 J	0.1
Zinc, TCLP	0.44 J	0.22 J	0.24	5
SPLP Metals (mg/l)				
Barium, SPLP	0.58	0.62	0.32 J	2
Chromium, SPLP	0.057	0.051	ND	0.1
Cobalt, SPLP	0.011 J	0.0088 J	ND	1
Copper, SPLP	0.083	0.071	ND	0.65
Iron, SPLP	49	41	0.88	5
Lead, SPLP	0.068	0.062	ND	0.0075
Manganese, SPLP	0.33	0.27	0.041	0.15
Mercury, SPLP	0.000073 J	0.000042 J	ND	0.002
Nickel, SPLP	0.041	0.035	ND	0.1
Zinc, SPLP	0.56	0.56	0.21	5

Summary Table of ISGS Site No. 2664-56
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.
[A] - Soil reference concentrations
ND - Constituent not detected above the reporting limit.
B - Constituent detected in the blank and investigative sample.
J - Estimated concentration.
J+ - Estimated concentration biased high.
Shaded values indicate concentration **exceeds** Reference Concentration.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59848-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Cindy Pritchard

Authorized for release by:
8/12/2013 4:32:45 PM
Cindy Pritchard, Project Mgmt. Assistant
cindy.pritchard@testamericainc.com

Designee for

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-19
Matrix: Solid
Percent Solids: 94.4

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.3		5.3	2.3	ug/Kg	☼		08/02/13 14:17	1
Benzene	<5.3		5.3	0.73	ug/Kg	☼		08/02/13 14:17	1
Bromodichloromethane	<5.3		5.3	0.91	ug/Kg	☼		08/02/13 14:17	1
Bromoform	<5.3		5.3	1.2	ug/Kg	☼		08/02/13 14:17	1
Bromomethane	<5.3		5.3	1.6	ug/Kg	☼		08/02/13 14:17	1
Carbon disulfide	<5.3		5.3	0.79	ug/Kg	☼		08/02/13 14:17	1
Carbon tetrachloride	<5.3		5.3	0.96	ug/Kg	☼		08/02/13 14:17	1
Chlorobenzene	<5.3		5.3	0.54	ug/Kg	☼		08/02/13 14:17	1
Chloroethane	<5.3		5.3	1.4	ug/Kg	☼		08/02/13 14:17	1
Chloroform	<5.3		5.3	0.61	ug/Kg	☼		08/02/13 14:17	1
Chloromethane	<5.3		5.3	1.1	ug/Kg	☼		08/02/13 14:17	1
cis-1,2-Dichloroethene	<5.3		5.3	0.75	ug/Kg	☼		08/02/13 14:17	1
cis-1,3-Dichloropropene	<5.3		5.3	0.70	ug/Kg	☼		08/02/13 14:17	1
Dibromochloromethane	<5.3		5.3	0.92	ug/Kg	☼		08/02/13 14:17	1
1,1-Dichloroethane	<5.3		5.3	0.84	ug/Kg	☼		08/02/13 14:17	1
1,2-Dichloroethane	<5.3		5.3	0.79	ug/Kg	☼		08/02/13 14:17	1
1,1-Dichloroethene	<5.3		5.3	0.86	ug/Kg	☼		08/02/13 14:17	1
1,2-Dichloropropane	<5.3		5.3	0.80	ug/Kg	☼		08/02/13 14:17	1
1,3-Dichloropropene, Total	<5.3		5.3	0.70	ug/Kg	☼		08/02/13 14:17	1
Ethylbenzene	<5.3		5.3	1.1	ug/Kg	☼		08/02/13 14:17	1
2-Hexanone	<5.3		5.3	1.5	ug/Kg	☼		08/02/13 14:17	1
Methylene Chloride	<5.3		5.3	1.4	ug/Kg	☼		08/02/13 14:17	1
Methyl Ethyl Ketone	<5.3		5.3	1.9	ug/Kg	☼		08/02/13 14:17	1
methyl isobutyl ketone	<5.3		5.3	1.4	ug/Kg	☼		08/02/13 14:17	1
Methyl tert-butyl ether	<5.3		5.3	0.88	ug/Kg	☼		08/02/13 14:17	1
Styrene	<5.3		5.3	0.70	ug/Kg	☼		08/02/13 14:17	1
1,1,2,2-Tetrachloroethane	<5.3		5.3	1.1	ug/Kg	☼		08/02/13 14:17	1
Tetrachloroethene	<5.3		5.3	0.81	ug/Kg	☼		08/02/13 14:17	1
Toluene	<5.3		5.3	0.74	ug/Kg	☼		08/02/13 14:17	1
trans-1,2-Dichloroethene	<5.3		5.3	0.73	ug/Kg	☼		08/02/13 14:17	1
trans-1,3-Dichloropropene	<5.3		5.3	0.95	ug/Kg	☼		08/02/13 14:17	1
1,1,1-Trichloroethane	<5.3		5.3	0.79	ug/Kg	☼		08/02/13 14:17	1
1,1,2-Trichloroethane	<5.3		5.3	0.72	ug/Kg	☼		08/02/13 14:17	1
Trichloroethene	<5.3		5.3	0.87	ug/Kg	☼		08/02/13 14:17	1
Vinyl chloride	<5.3		5.3	1.1	ug/Kg	☼		08/02/13 14:17	1
Xylenes, Total	<11		11	0.48	ug/Kg	☼		08/02/13 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 122*		*08/02/13 14:17*	*1*
Dibromofluoromethane	*113*		*75 - 120*		*08/02/13 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 134*		*08/02/13 14:17*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/02/13 14:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3400		3400	770	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
1,2-Dichlorobenzene	<3400		3400	740	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
1,3-Dichlorobenzene	<3400		3400	710	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
1,4-Dichlorobenzene	<3400		3400	710	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2,2'-oxybis[1-chloropropane]	<3400		3400	750	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-19
Matrix: Solid
Percent Solids: 94.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<6700		6700	1900	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2,4,6-Trichlorophenol	<6700		6700	850	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2,4-Dichlorophenol	<6700		6700	2100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2,4-Dimethylphenol	<6700	*	6700	2100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2,4-Dinitrophenol	<14000		14000	3500	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2,4-Dinitrotoluene	<3400		3400	1000	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2,6-Dinitrotoluene	<3400		3400	810	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2-Chloronaphthalene	<3400		3400	760	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2-Chlorophenol	<3400		3400	970	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2-Methylnaphthalene	<3400		3400	880	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2-Methylphenol	<3400		3400	900	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2-Nitroaniline	<3400		3400	1200	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
2-Nitrophenol	<6700		6700	1100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
3 & 4 Methylphenol	<3400		3400	1300	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
3,3'-Dichlorobenzidine	<3400		3400	570	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
3-Nitroaniline	<6700		6700	1300	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
4,6-Dinitro-2-methylphenol	<6700		6700	1600	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
4-Bromophenyl phenyl ether	<3400		3400	760	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
4-Chloro-3-methylphenol	<6700	*	6700	3200	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
4-Chloroaniline	<14000		14000	2100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
4-Chlorophenyl phenyl ether	<3400	*	3400	1100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
4-Nitroaniline	<6700		6700	1400	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
4-Nitrophenol	<14000		14000	3700	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Acenaphthene	<670		670	200	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Acenaphthylene	<670		670	160	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Anthracene	<670		670	160	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Benzo[a]anthracene	**820**		670	140	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Benzo[a]pyrene	**930**		670	120	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Benzo[b]fluoranthene	**1600**		670	130	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Benzo[g,h,i]perylene	**780**		670	230	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Benzo[k]fluoranthene	**530**	**J**	670	160	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Bis(2-chloroethoxy)methane	<3400		3400	750	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Bis(2-chloroethyl)ether	<3400		3400	1000	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Bis(2-ethylhexyl) phthalate	<3400		3400	900	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Butyl benzyl phthalate	<3400		3400	850	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Carbazole	<3400		3400	950	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Chrysene	**1000**		670	150	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Dibenz(a,h)anthracene	<670		670	190	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Dibenzofuran	<3400		3400	810	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Diethyl phthalate	<3400	*	3400	1100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Dimethyl phthalate	<3400		3400	850	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Di-n-butyl phthalate	<3400		3400	860	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Di-n-octyl phthalate	<3400		3400	1400	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Fluoranthene	**2000**		670	280	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Fluorene	<670		670	150	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Hexachlorobenzene	<1400		1400	130	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Hexachlorobutadiene	<3400		3400	890	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Hexachlorocyclopentadiene	<14000		14000	3100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Hexachloroethane	<3400		3400	720	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-19
Matrix: Solid
Percent Solids: 94.4

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	620	J	670	230	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Isophorone	<3400		3400	760	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Naphthalene	<670		670	130	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Nitrobenzene	<670		670	210	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
N-Nitrosodi-n-propylamine	<3400		3400	860	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
N-Nitrosodiphenylamine	<3400		3400	920	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Pentachlorophenol	<14000		14000	3400	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Phenanthrene	810		670	280	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Phenol	<3400		3400	1100	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5
Pyrene	1500		670	240	ug/Kg	☼	08/02/13 08:45	08/12/13 07:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*35 - 137*	*08/02/13 08:45*	*08/12/13 07:14*	*5*
2-Fluorobiphenyl	*85*		*30 - 119*	*08/02/13 08:45*	*08/12/13 07:14*	*5*
2-Fluorophenol	*66*		*30 - 110*	*08/02/13 08:45*	*08/12/13 07:14*	*5*
Nitrobenzene-d5	*66*		*30 - 115*	*08/02/13 08:45*	*08/12/13 07:14*	*5*
Phenol-d5	*81*		*31 - 110*	*08/02/13 08:45*	*08/12/13 07:14*	*5*
Terphenyl-d14	*95*		*36 - 134*	*08/02/13 08:45*	*08/12/13 07:14*	*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		08/01/13 09:30	08/09/13 06:21	1
Barium	0.89	B	0.50	0.010	mg/L		08/01/13 09:30	08/09/13 06:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/13 09:30	08/09/13 06:21	1
Cadmium	0.0022	J	0.0050	0.0020	mg/L		08/01/13 09:30	08/09/13 06:21	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:21	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 06:21	1
Copper	0.020	J	0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:21	1
Iron	<0.20		0.20	0.20	mg/L		08/01/13 09:30	08/09/13 06:21	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/01/13 09:30	08/09/13 06:21	1
Manganese	1.1		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:21	1
Nickel	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:21	1
Selenium	<0.050		0.050	0.010	mg/L		08/01/13 09:30	08/09/13 06:21	1
Silver	<0.025		0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 06:21	1
Zinc	0.44	B	0.10	0.020	mg/L		08/01/13 09:30	08/09/13 06:21	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		07/30/13 10:00	08/08/13 03:04	1
Barium	0.58		0.50	0.010	mg/L		07/30/13 10:00	08/08/13 03:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:00	08/08/13 03:04	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:00	08/08/13 03:04	1
Chromium	0.057		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:04	1
Cobalt	0.011	J	0.025	0.0050	mg/L		07/30/13 10:00	08/08/13 03:04	1
Copper	0.083		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:04	1
Iron	49		0.20	0.20	mg/L		07/30/13 10:00	08/08/13 03:04	1
Lead	0.068		0.0075	0.0050	mg/L		07/30/13 10:00	08/08/13 03:04	1
Manganese	0.33		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:04	1
Nickel	0.041		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:04	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:00	08/08/13 03:04	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-19
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	0.0050	mg/L		07/30/13 10:00	08/08/13 03:04	1
Zinc	**0.56**		0.10	0.020	mg/L		07/30/13 10:00	08/08/13 03:04	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4300**		10	0.96	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Arsenic	**4.0**		0.52	0.10	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Barium	**63**		0.52	0.056	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Beryllium	**0.37**		0.21	0.018	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Cadmium	**1.2**	**B**	0.10	0.013	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Calcium	**92000**	**B**	100	28	mg/Kg	☼	07/26/13 10:24	08/09/13 16:34	10
Chromium	**25**		0.52	0.061	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Cobalt	**3.7**		0.26	0.019	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Copper	**65**		0.52	0.046	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Iron	**15000**		10	4.3	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Lead	**43**		0.26	0.078	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Magnesium	**44000**	**B**	5.2	1.1	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Manganese	**400**	**B**	0.52	0.028	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Nickel	**16**	**B**	0.52	0.051	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Potassium	**870**		26	1.6	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Selenium	<0.52		0.52	0.19	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Silver	**0.025**	**J**	0.26	0.019	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Sodium	**620**	**B**	52	7.0	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Thallium	<0.52		0.52	0.22	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Vanadium	**16**		0.26	0.039	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1
Zinc	**98**	**B**	1.0	0.21	mg/Kg	☼	07/26/13 10:24	08/09/13 09:56	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/01/13 15:00	08/02/13 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**	**J**	0.20	0.020	ug/L		07/30/13 15:45	07/31/13 13:21	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	**23**		17	8.0	ug/Kg	☼	07/30/13 17:45	07/31/13 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.86**		0.200	0.200	SU			08/08/13 21:41	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513D
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-20
Matrix: Solid
Percent Solids: 91.9

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.4		5.4	2.4	ug/Kg	☼		08/02/13 14:41	1
Benzene	<5.4		5.4	0.75	ug/Kg	☼		08/02/13 14:41	1
Bromodichloromethane	<5.4		5.4	0.94	ug/Kg	☼		08/02/13 14:41	1
Bromoform	<5.4		5.4	1.3	ug/Kg	☼		08/02/13 14:41	1
Bromomethane	<5.4		5.4	1.6	ug/Kg	☼		08/02/13 14:41	1
Carbon disulfide	<5.4		5.4	0.81	ug/Kg	☼		08/02/13 14:41	1
Carbon tetrachloride	<5.4		5.4	0.99	ug/Kg	☼		08/02/13 14:41	1
Chlorobenzene	<5.4		5.4	0.55	ug/Kg	☼		08/02/13 14:41	1
Chloroethane	<5.4		5.4	1.5	ug/Kg	☼		08/02/13 14:41	1
Chloroform	<5.4		5.4	0.63	ug/Kg	☼		08/02/13 14:41	1
Chloromethane	<5.4		5.4	1.1	ug/Kg	☼		08/02/13 14:41	1
cis-1,2-Dichloroethene	<5.4		5.4	0.77	ug/Kg	☼		08/02/13 14:41	1
cis-1,3-Dichloropropene	<5.4		5.4	0.71	ug/Kg	☼		08/02/13 14:41	1
Dibromochloromethane	<5.4		5.4	0.95	ug/Kg	☼		08/02/13 14:41	1
1,1-Dichloroethane	<5.4		5.4	0.86	ug/Kg	☼		08/02/13 14:41	1
1,2-Dichloroethane	<5.4		5.4	0.81	ug/Kg	☼		08/02/13 14:41	1
1,1-Dichloroethene	<5.4		5.4	0.88	ug/Kg	☼		08/02/13 14:41	1
1,2-Dichloropropane	<5.4		5.4	0.83	ug/Kg	☼		08/02/13 14:41	1
1,3-Dichloropropene, Total	<5.4		5.4	0.71	ug/Kg	☼		08/02/13 14:41	1
Ethylbenzene	<5.4		5.4	1.1	ug/Kg	☼		08/02/13 14:41	1
2-Hexanone	<5.4		5.4	1.6	ug/Kg	☼		08/02/13 14:41	1
Methylene Chloride	<5.4		5.4	1.5	ug/Kg	☼		08/02/13 14:41	1
Methyl Ethyl Ketone	<5.4		5.4	2.0	ug/Kg	☼		08/02/13 14:41	1
methyl isobutyl ketone	<5.4		5.4	1.4	ug/Kg	☼		08/02/13 14:41	1
Methyl tert-butyl ether	<5.4		5.4	0.90	ug/Kg	☼		08/02/13 14:41	1
Styrene	<5.4		5.4	0.71	ug/Kg	☼		08/02/13 14:41	1
1,1,2,2-Tetrachloroethane	<5.4		5.4	1.1	ug/Kg	☼		08/02/13 14:41	1
Tetrachloroethene	<5.4		5.4	0.83	ug/Kg	☼		08/02/13 14:41	1
Toluene	<5.4		5.4	0.76	ug/Kg	☼		08/02/13 14:41	1
trans-1,2-Dichloroethene	<5.4		5.4	0.75	ug/Kg	☼		08/02/13 14:41	1
trans-1,3-Dichloropropene	<5.4		5.4	0.98	ug/Kg	☼		08/02/13 14:41	1
1,1,1-Trichloroethane	<5.4		5.4	0.81	ug/Kg	☼		08/02/13 14:41	1
1,1,2-Trichloroethane	<5.4		5.4	0.74	ug/Kg	☼		08/02/13 14:41	1
Trichloroethene	<5.4		5.4	0.90	ug/Kg	☼		08/02/13 14:41	1
Vinyl chloride	<5.4		5.4	1.1	ug/Kg	☼		08/02/13 14:41	1
Xylenes, Total	<11		11	0.49	ug/Kg	☼		08/02/13 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/02/13 14:41*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*08/02/13 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*		*08/02/13 14:41*	*1*
Toluene-d8 (Surr)	*99*		*75 - 122*		*08/02/13 14:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<3600		3600	810	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
1,2-Dichlorobenzene	<3600		3600	780	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
1,3-Dichlorobenzene	<3600		3600	750	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
1,4-Dichlorobenzene	<3600		3600	750	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2,2'-oxybis[1-chloropropane]	<3600		3600	790	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513D
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-20
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<7100		7100	2100	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2,4,6-Trichlorophenol	<7100		7100	900	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2,4-Dichlorophenol	<7100		7100	2200	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2,4-Dimethylphenol	<7100	*	7100	2200	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2,4-Dinitrophenol	<14000		14000	3700	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2,4-Dinitrotoluene	<3600		3600	1100	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2,6-Dinitrotoluene	<3600		3600	850	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2-Chloronaphthalene	<3600		3600	810	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2-Chlorophenol	<3600		3600	1000	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2-Methylnaphthalene	<3600		3600	930	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2-Methylphenol	<3600		3600	950	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2-Nitroaniline	<3600		3600	1300	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
2-Nitrophenol	<7100		7100	1100	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
3 & 4 Methylphenol	<3600		3600	1400	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
3,3'-Dichlorobenzidine	<3600		3600	600	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
3-Nitroaniline	<7100		7100	1400	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
4,6-Dinitro-2-methylphenol	<7100		7100	1700	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
4-Bromophenyl phenyl ether	<3600		3600	800	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
4-Chloro-3-methylphenol	<7100	*	7100	3400	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
4-Chloroaniline	<14000		14000	2200	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
4-Chlorophenyl phenyl ether	<3600	*	3600	1100	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
4-Nitroaniline	<7100		7100	1500	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
4-Nitrophenol	<14000		14000	3900	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Acenaphthene	<710		710	210	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Acenaphthylene	<710		710	160	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Anthracene	<710		710	170	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Benzo[a]anthracene	**720**		710	150	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Benzo[a]pyrene	**830**		710	130	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Benzo[b]fluoranthene	**1300**		710	140	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Benzo[g,h,i]perylene	**900**		710	240	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Benzo[k]fluoranthene	**510**	**J**	710	170	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Bis(2-chloroethoxy)methane	<3600		3600	790	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Bis(2-chloroethyl)ether	<3600		3600	1100	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Bis(2-ethylhexyl) phthalate	<3600		3600	950	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Butyl benzyl phthalate	<3600		3600	900	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Carbazole	<3600		3600	1000	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Chrysene	**880**		710	160	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Dibenz(a,h)anthracene	<710		710	200	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Dibenzofuran	<3600		3600	860	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Diethyl phthalate	<3600	*	3600	1200	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Dimethyl phthalate	<3600		3600	900	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Di-n-butyl phthalate	<3600		3600	910	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Di-n-octyl phthalate	<3600		3600	1500	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Fluoranthene	**1500**		710	290	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Fluorene	<710		710	160	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Hexachlorobenzene	<1400		1400	140	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Hexachlorobutadiene	<3600		3600	940	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Hexachlorocyclopentadiene	<14000		14000	3300	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Hexachloroethane	<3600		3600	760	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513D
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-20
Matrix: Solid
Percent Solids: 91.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	650	J	710	240	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Isophorone	<3600		3600	800	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Naphthalene	<710		710	140	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Nitrobenzene	<710		710	220	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
N-Nitrosodi-n-propylamine	<3600		3600	910	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
N-Nitrosodiphenylamine	<3600		3600	970	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Pentachlorophenol	<14000		14000	3700	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Phenanthrene	610	J	710	300	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Phenol	<3600		3600	1100	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5
Pyrene	1300		710	260	ug/Kg	☼	08/02/13 08:45	08/09/13 17:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*35 - 137*	*08/02/13 08:45*	*08/09/13 17:57*	*5*
2-Fluorobiphenyl	*85*		*30 - 119*	*08/02/13 08:45*	*08/09/13 17:57*	*5*
2-Fluorophenol	*74*		*30 - 110*	*08/02/13 08:45*	*08/09/13 17:57*	*5*
Nitrobenzene-d5	*68*		*30 - 115*	*08/02/13 08:45*	*08/09/13 17:57*	*5*
Phenol-d5	*63*		*31 - 110*	*08/02/13 08:45*	*08/09/13 17:57*	*5*
Terphenyl-d14	*97*		*36 - 134*	*08/02/13 08:45*	*08/09/13 17:57*	*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		08/01/13 09:30	08/09/13 06:28	1
Barium	0.49	J B	0.50	0.010	mg/L		08/01/13 09:30	08/09/13 06:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/01/13 09:30	08/09/13 06:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/01/13 09:30	08/09/13 06:28	1
Chromium	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:28	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 06:28	1
Copper	0.011	J	0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:28	1
Iron	<0.20		0.20	0.20	mg/L		08/01/13 09:30	08/09/13 06:28	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/01/13 09:30	08/09/13 06:28	1
Manganese	0.66		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:28	1
Nickel	<0.025		0.025	0.010	mg/L		08/01/13 09:30	08/09/13 06:28	1
Selenium	<0.050		0.050	0.010	mg/L		08/01/13 09:30	08/09/13 06:28	1
Silver	<0.025		0.025	0.0050	mg/L		08/01/13 09:30	08/09/13 06:28	1
Zinc	0.22	B	0.10	0.020	mg/L		08/01/13 09:30	08/09/13 06:28	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		07/30/13 10:00	08/08/13 03:08	1
Barium	0.62		0.50	0.010	mg/L		07/30/13 10:00	08/08/13 03:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/30/13 10:00	08/08/13 03:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/30/13 10:00	08/08/13 03:08	1
Chromium	0.051		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:08	1
Cobalt	0.0088	J	0.025	0.0050	mg/L		07/30/13 10:00	08/08/13 03:08	1
Copper	0.071		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:08	1
Iron	41		0.20	0.20	mg/L		07/30/13 10:00	08/08/13 03:08	1
Lead	0.062		0.0075	0.0050	mg/L		07/30/13 10:00	08/08/13 03:08	1
Manganese	0.27		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:08	1
Nickel	0.035		0.025	0.010	mg/L		07/30/13 10:00	08/08/13 03:08	1
Selenium	<0.050		0.050	0.010	mg/L		07/30/13 10:00	08/08/13 03:08	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

Client Sample ID: BZ-1(0.5-1.5)-072513D
Date Collected: 07/25/13 11:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59848-20
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	0.0050	mg/L		07/30/13 10:00	08/08/13 03:08	1
Zinc	**0.56**		0.10	0.020	mg/L		07/30/13 10:00	08/08/13 03:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		11	0.99	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Antimony	**0.46**	**J**	1.1	0.43	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Arsenic	**5.9**		0.54	0.11	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Barium	**64**		0.54	0.058	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Beryllium	**0.73**		0.22	0.019	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Cadmium	**0.71**	**B**	0.11	0.014	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Calcium	**30000**	**B**	11	2.9	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Chromium	**17**		0.54	0.062	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Cobalt	**7.1**		0.27	0.019	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Copper	**30**		0.54	0.048	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Iron	**17000**		11	4.4	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Lead	**44**		0.27	0.080	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Magnesium	**18000**	**B**	5.4	1.1	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Manganese	**520**	**B**	0.54	0.029	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Nickel	**20**	**B**	0.54	0.053	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Potassium	**1600**		27	1.6	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Silver	<0.27		0.27	0.019	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Sodium	**1700**	**B**	54	7.2	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Thallium	**0.43**	**J**	0.54	0.23	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Vanadium	**19**		0.27	0.040	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1
Zinc	**72**	**B**	1.1	0.22	mg/Kg	☼	07/26/13 10:24	08/09/13 10:04	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/01/13 15:00	08/02/13 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**	**J**	0.20	0.020	ug/L		07/30/13 15:45	07/31/13 13:23	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	**26**		17	7.8	ug/Kg	☼	07/30/13 17:45	07/31/13 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.89**		0.200	0.200	SU			08/08/13 22:09	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits

GC Semi VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
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.

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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59848-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

500-59848 COC

Chain of Custody Record

Lab Job #: 500-59848

Chain of Custody Number:

Page 1 of 4

Temperature °C of Cooler: 3.6, 4.0

Report To (optional)
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct. Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Client: Weston
Client Project #:
Project Name: IDOT-004
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH	Herbicides	Pesticides			Comments
1		WD2-4(0.5-1.5)-072513	7-25-13	0735	2	S	X	X	X	X	X	X	X			
2		RS-1(0.5-1.5)-072513	↓	0750	↓	↓	X	X	X	X	X					
3		RS2-1(0.5-1.5)-072513	↓	0805	↓	↓	↓	↓	↓	↓	↓					
4		RS2-2(0.5-1.5)-072513	↓	0815	↓	↓	↓	↓	↓	↓	↓					
5		SM8-1(0.5-1.5)-072513	↓	0830	↓	↓	↓	↓	↓	↓	↓					
6		SM8-2(0.5-1.5)-072513	↓	0840	↓	↓	↓	↓	↓	↓	↓					
7		CB-1(0.5-1.5)-072513	↓	0850	↓	↓	↓	↓	↓	↓	↓					
8		CB-2(0.5-1.5)-072513	↓	0900	↓	↓	↓	↓	↓	↓	↓					
9		RS3-1(0.5-1.5)-072513	↓	0915	↓	↓	↓	↓	↓	↓	↓					
10		RS3-1(0.5-1.5)-072513 Dup	7-25-13	0915	2	S	X	X	X	X	X					

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

Sample Disposal
[ ] Return to Client [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	7-25-13	1535	Dale Mattes	TA	7-25-13	1535
Dale Mattes	TA	7-25-13	1729	Sherri Scott	TA-CHI	7/25/13	1729

Lab Courier: T.A.
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59848
Chain of Custody Number:
Page 2 of 4
Temperature °C of Cooler: 3.6, 4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / IL
Lab Project #:
Sampler: T. Walls
Lab PM: D Wright

Preservative / Parameter

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	VOCs	SVOCs	TCL Metals	TCLP/SPLP Metals	pH					Comments
11		RS3-2(0.5-1.5)-072513	7-25-13	0935	2	S	X	X	X	X	X					
12		RS3-3(0.5-1.5)-072513		0950												
13		RS3-4(0.5-1.5)-072513		1005												
14		RS3-5(0.5-1.5)-072513		1015												
15		RS3-6(0.5-1.5)-072513		1030												
16		WD3-1(0.5-1.5)-072513		1050												
17		WD3-2(0.5-1.5)-072513		1105												
18		WD3-3(0.5-1.5)-072513		1115												
19		BZ-1(0.5-1.5)-072513		1135												
20		BZ-1(0.5-1.5)-072513Dup	7-25-13	1135	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 [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
Tim A. Walls	Weston	7-25-13	1535	Dale Matter	TA	7-25-13	1535
Dale Matter	TA	7-25-13	1729	Sherri Scott	TA-CHI	7/25/13	1729
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:

TAL-4124-500 (1209)

8/12/2013

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: 500-59849-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/10/2013 9:01:02 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: BZ-2(0.5-1.5)-072513
Date Collected: 07/25/13 12:20
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-1
Matrix: Solid
Percent Solids: 80.8

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.2		6.2	2.7	ug/Kg	☼		08/01/13 16:53	1
Benzene	<6.2		6.2	0.85	ug/Kg	☼		08/01/13 16:53	1
Bromodichloromethane	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 16:53	1
Bromoform	<6.2		6.2	1.4	ug/Kg	☼		08/01/13 16:53	1
Bromomethane	<6.2		6.2	1.9	ug/Kg	☼		08/01/13 16:53	1
Carbon disulfide	<6.2		6.2	0.92	ug/Kg	☼		08/01/13 16:53	1
Carbon tetrachloride	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 16:53	1
Chlorobenzene	<6.2		6.2	0.63	ug/Kg	☼		08/01/13 16:53	1
Chloroethane	<6.2		6.2	1.7	ug/Kg	☼		08/01/13 16:53	1
Chloroform	<6.2		6.2	0.71	ug/Kg	☼		08/01/13 16:53	1
Chloromethane	<6.2		6.2	1.3	ug/Kg	☼		08/01/13 16:53	1
cis-1,2-Dichloroethene	<6.2		6.2	0.87	ug/Kg	☼		08/01/13 16:53	1
cis-1,3-Dichloropropene	<6.2		6.2	0.81	ug/Kg	☼		08/01/13 16:53	1
Dibromochloromethane	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 16:53	1
1,1-Dichloroethane	<6.2		6.2	0.98	ug/Kg	☼		08/01/13 16:53	1
1,2-Dichloroethane	<6.2		6.2	0.92	ug/Kg	☼		08/01/13 16:53	1
1,1-Dichloroethene	<6.2		6.2	1.0	ug/Kg	☼		08/01/13 16:53	1
1,2-Dichloropropane	<6.2		6.2	0.94	ug/Kg	☼		08/01/13 16:53	1
1,3-Dichloropropene, Total	<6.2		6.2	0.81	ug/Kg	☼		08/01/13 16:53	1
Ethylbenzene	<6.2		6.2	1.2	ug/Kg	☼		08/01/13 16:53	1
2-Hexanone	<6.2		6.2	1.8	ug/Kg	☼		08/01/13 16:53	1
Methylene Chloride	<6.2		6.2	1.7	ug/Kg	☼		08/01/13 16:53	1
Methyl Ethyl Ketone	<6.2		6.2	2.2	ug/Kg	☼		08/01/13 16:53	1
methyl isobutyl ketone	<6.2		6.2	1.6	ug/Kg	☼		08/01/13 16:53	1
Methyl tert-butyl ether	<6.2		6.2	1.0	ug/Kg	☼		08/01/13 16:53	1
Styrene	<6.2		6.2	0.81	ug/Kg	☼		08/01/13 16:53	1
1,1,2,2-Tetrachloroethane	<6.2		6.2	1.2	ug/Kg	☼		08/01/13 16:53	1
Tetrachloroethene	<6.2		6.2	0.95	ug/Kg	☼		08/01/13 16:53	1
Toluene	<6.2		6.2	0.87	ug/Kg	☼		08/01/13 16:53	1
trans-1,2-Dichloroethene	<6.2		6.2	0.85	ug/Kg	☼		08/01/13 16:53	1
trans-1,3-Dichloropropene	<6.2		6.2	1.1	ug/Kg	☼		08/01/13 16:53	1
1,1,1-Trichloroethane	<6.2		6.2	0.92	ug/Kg	☼		08/01/13 16:53	1
1,1,2-Trichloroethane	<6.2		6.2	0.84	ug/Kg	☼		08/01/13 16:53	1
Trichloroethene	<6.2		6.2	1.0	ug/Kg	☼		08/01/13 16:53	1
Vinyl chloride	<6.2		6.2	1.3	ug/Kg	☼		08/01/13 16:53	1
Xylenes, Total	<12		12	0.56	ug/Kg	☼		08/01/13 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*08/01/13 16:53*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/01/13 16:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 134*		*08/01/13 16:53*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*08/01/13 16:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<200		200	45	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
1,2-Dichlorobenzene	<200		200	43	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
1,3-Dichlorobenzene	<200		200	42	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
1,4-Dichlorobenzene	<200		200	42	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2,2'-oxybis[1-chloropropane]	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: BZ-2(0.5-1.5)-072513
Date Collected: 07/25/13 12:20
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-1
Matrix: Solid
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<390		390	110	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2,4,6-Trichlorophenol	<390		390	50	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2,4-Dichlorophenol	<390		390	120	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2,4-Dimethylphenol	<390	*	390	120	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2,4-Dinitrophenol	<800	*	800	200	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2,4-Dinitrotoluene	<200		200	61	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2,6-Dinitrotoluene	<200		200	47	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2-Chlorophenol	<200		200	57	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2-Methylnaphthalene	<200		200	51	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2-Methylphenol	<200		200	53	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2-Nitroaniline	<200		200	71	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
2-Nitrophenol	<390		390	62	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
3 & 4 Methylphenol	<200		200	75	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
3,3'-Dichlorobenzidine	<200		200	33	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
3-Nitroaniline	<390		390	76	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
4,6-Dinitro-2-methylphenol	<390		390	96	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
4-Bromophenyl phenyl ether	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
4-Chloro-3-methylphenol	<390		390	190	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
4-Chloroaniline	<800		800	120	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
4-Chlorophenyl phenyl ether	<200	*	200	62	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
4-Nitroaniline	<390		390	81	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
4-Nitrophenol	<800		800	210	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Acenaphthene	<39		39	12	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Acenaphthylene	<39		39	9.1	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Anthracene	<39		39	9.3	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Benzo[a]anthracene	**29**	**J**	39	8.3	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Benzo[a]pyrene	**37**	**J**	39	7.2	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Benzo[b]fluoranthene	**56**		39	7.7	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Benzo[g,h,i]perylene	**44**		39	13	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Benzo[k]fluoranthene	**17**	**J**	39	9.4	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Bis(2-chloroethoxy)methane	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Bis(2-ethylhexyl) phthalate	<200		200	52	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Butyl benzyl phthalate	<200		200	50	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Carbazole	<200		200	56	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Chrysene	**45**		39	8.9	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Dibenz(a,h)anthracene	**11**	**J**	39	11	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Dibenzofuran	<200		200	48	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Diethyl phthalate	<200	*	200	66	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Dimethyl phthalate	<200		200	49	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Di-n-butyl phthalate	<200		200	50	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Di-n-octyl phthalate	<200		200	80	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Fluoranthene	**68**		39	16	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Fluorene	<39		39	9.0	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Hexachlorobenzene	<80		80	7.8	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Hexachlorobutadiene	<200		200	52	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Hexachlorocyclopentadiene	<800		800	180	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Hexachloroethane	<200		200	42	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: BZ-2(0.5-1.5)-072513
Date Collected: 07/25/13 12:20
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-1
Matrix: Solid
Percent Solids: 80.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	34	J	39	13	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Isophorone	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Naphthalene	<39		39	7.6	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Nitrobenzene	<39		39	12	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
N-Nitrosodi-n-propylamine	<200		200	50	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
N-Nitrosodiphenylamine	<200		200	54	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Pentachlorophenol	<800		800	200	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Phenanthrene	24	J	39	17	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Phenol	<200		200	63	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1
Pyrene	65		39	14	ug/Kg	☼	08/02/13 08:58	08/07/13 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*49*		*35 - 137*	*08/02/13 08:58*	*08/07/13 18:49*	*1*
2-Fluorobiphenyl	*45*		*30 - 119*	*08/02/13 08:58*	*08/07/13 18:49*	*1*
2-Fluorophenol	*41*		*30 - 110*	*08/02/13 08:58*	*08/07/13 18:49*	*1*
Nitrobenzene-d5	*37*		*30 - 115*	*08/02/13 08:58*	*08/07/13 18:49*	*1*
Phenol-d5	*42*		*31 - 110*	*08/02/13 08:58*	*08/07/13 18:49*	*1*
Terphenyl-d14	*56*		*36 - 134*	*08/02/13 08:58*	*08/07/13 18:49*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 03:50	1
Barium	0.69		0.50	0.010	mg/L		08/02/13 09:30	08/08/13 03:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 09:30	08/08/13 03:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 09:30	08/08/13 03:50	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:50	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 03:50	1
Copper	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:50	1
Iron	<0.20		0.20	0.20	mg/L		08/02/13 09:30	08/08/13 03:50	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/02/13 09:30	08/08/13 03:50	1
Manganese	1.4		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:50	1
Nickel	0.017	J	0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:50	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 03:50	1
Silver	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 03:50	1
Zinc	0.24		0.10	0.020	mg/L		08/02/13 09:30	08/08/13 03:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 19:45	1
Barium	0.32	J	0.50	0.010	mg/L		07/31/13 10:40	08/08/13 19:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/31/13 10:40	08/08/13 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/31/13 10:40	08/08/13 19:45	1
Chromium	<0.025		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 19:45	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/31/13 10:40	08/08/13 19:45	1
Copper	<0.025		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 19:45	1
Iron	0.88		0.20	0.20	mg/L		07/31/13 10:40	08/08/13 19:45	1
Lead	<0.0075		0.0075	0.0050	mg/L		07/31/13 10:40	08/08/13 19:45	1
Manganese	0.041		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 19:45	1
Nickel	<0.025		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 19:45	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 19:45	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: BZ-2(0.5-1.5)-072513
Date Collected: 07/25/13 12:20
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-1
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	0.0050	mg/L		07/31/13 10:40	08/08/13 19:45	1
Zinc	**0.21**		0.10	0.020	mg/L		07/31/13 10:40	08/08/13 19:45	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7500**		11	1.0	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Antimony	<1.1		1.1	0.46	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Arsenic	**6.4**		0.57	0.11	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Barium	**46**		0.57	0.061	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Beryllium	**0.47**		0.23	0.020	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Cadmium	**0.81**		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Calcium	**86000**	**B**	110	31	mg/Kg	☼	07/28/13 17:00	08/09/13 11:45	10
Chromium	**13**		0.57	0.066	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Cobalt	**7.7**	**B**	0.28	0.020	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Copper	**37**		0.57	0.050	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Iron	**16000**		11	4.7	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Lead	**12**		0.28	0.085	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Magnesium	**41000**	**B**	5.7	1.2	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Manganese	**420**	**B**	0.57	0.031	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Nickel	**20**	**B**	0.57	0.056	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Potassium	**2000**		28	1.7	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Selenium	<0.57		0.57	0.20	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Silver	**0.094**	**J B**	0.28	0.021	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Sodium	**1300**		57	7.6	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Thallium	**0.33**	**J**	0.57	0.24	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Vanadium	**19**	**B**	0.28	0.042	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1
Zinc	**48**		1.1	0.23	mg/Kg	☼	07/28/13 17:00	08/08/13 22:23	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 10:36	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	<20		20	9.4	ug/Kg	☼	07/29/13 13:00	07/30/13 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.96**		0.200	0.200	SU			08/08/13 15:49	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59849 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.6/4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / 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	TCL metals	TCLP/SPLP metals	pH	Comments
1		BZ-2(0.5-1.5)-072513	7-25-13	1220	2	S		X	X	X	X	X	
2		VL3-1(0.5-1.5)-072513		1235									
3		VL3-2(0.5-1.5)-072513		1250									
4		VL3-3(0.5-1.5)-072513		1300									
5		CCB-1(0.5-1.5)-072513		1315									
6		CCB-2(0.5-1.5)-072513		1335									
7		CCB-3(0.5-1.5)-072513		1355									
8		CCB-4(0.5-1.5)-072513		1405									
9		WD4-1(0.5-1.5)-072513		1415									
10		WD4-1(0.5-1.5)-072513Dup	7-25-13	1415	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [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	7-25-13	1535	[illegible]	TA	7-25-13	1535
[illegible]	TA	7-25-13	1729	Sheri Scott	TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

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

21000 block of N. Rand Rand

City: Deer Park State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.169095452 Longitude: -88.069022856

(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 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.169095452 Longitude: -88.069022856

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION VL3-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-57. SEE FIGURE 3-5 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: 500-59849-1.

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 Transporation

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:

7/15/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED
PROFESSIONAL
GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-57
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	VL3-1(0.5-1.5)-072513	**Soil Reference Concentrations[A]**
Sample Date	7/25/2013	
Location ID	VL3-1	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.93	<6.25,.9.0
VOCs (ug/kg)		
Acetone	45	25000
SVOCs (ug/kg)		
Acenaphthene	23 J	570000
Anthracene	51	1.2E+07
Benzo(a)anthracene	290	900 / 1100 / 1800
Benzo(a)pyrene	350	90 / 1300 / 2100
Benzo(b)fluoranthene	540	900 / 1500 / 2100
Benzo(g,h,i)perylene	310	---
Benzo(k)fluoranthene	280	9000
Carbazole	52 J	600
Chrysene	410	88000
Dibenzo(a,h)anthracene	69	90 / 200 / 420
Fluoranthene	790	3100000
Fluorene	25 J	560000
Indeno(1,2,3-cd)pyrene	250	900 / 900 / 1600
Phenanthrene	460	---
Pyrene	890	2300000
TCL Metals (mg/kg)		
Aluminum, Total	9200	---
Arsenic, Total	9.2	11.3 / 13
Barium, Total	43	1500
Beryllium, Total	0.56	22
Cadmium, Total	0.94	5.2
Calcium, Total	37000 B	---
Chromium, Total	16	21
Cobalt, Total	10 B	20
Copper, Total	35	2900
Iron, Total	20000	15000 / 15900
Lead, Total	44	107
Magnesium, Total	24000 B	325000
Manganese, Total	430 B	630
Nickel, Total	27 B	100
Potassium, Total	1900	---
Sodium, Total	3100	---
Thallium, Total	0.44 J	2.6
Vanadium, Total	20 B	550
Zinc, Total	63	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.72	2
Cadmium, TCLP	0.002 J	0.005
Cobalt, TCLP	0.04	1
Iron, TCLP	0.27	5
Lead, TCLP	0.015	0.0075
Manganese, TCLP	8.2	0.15
Nickel, TCLP	0.032	0.1
Zinc, TCLP	0.31	5

Summary Table of ISGS Site No. 2664-57
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	VL3-1(0.5-1.5)-072513	**Soil Reference Concentrations[A]**
Sample Date	7/25/2013	
Location ID	VL3-1	
Depth	0.5 - 1.5	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.068	0.05
Barium, SPLP	0.48 J	2
Beryllium, SPLP	0.0063	0.004
Cadmium, SPLP	0.0026 J	0.005
Chromium, SPLP	0.13	0.1
Cobalt, SPLP	0.065	1
Copper, SPLP	0.18	0.65
Iron, SPLP	150	5
Lead, SPLP	0.26	0.0075
Manganese, SPLP	1.6	0.15
Mercury, SPLP	0.00018 J	0.002
Nickel, SPLP	0.18	0.1
Zinc, SPLP	0.48	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.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59849-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/10/2013 9:01:02 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: VL3-1(0.5-1.5)-072513
Date Collected: 07/25/13 12:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-2
Matrix: Solid
Percent Solids: 86.0

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	45		5.8	2.5	ug/Kg	☼		08/01/13 18:03	1
Benzene	<5.8		5.8	0.80	ug/Kg	☼		08/01/13 18:03	1
Bromodichloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 18:03	1
Bromoform	<5.8		5.8	1.3	ug/Kg	☼		08/01/13 18:03	1
Bromomethane	<5.8		5.8	1.8	ug/Kg	☼		08/01/13 18:03	1
Carbon disulfide	<5.8		5.8	0.87	ug/Kg	☼		08/01/13 18:03	1
Carbon tetrachloride	<5.8		5.8	1.1	ug/Kg	☼		08/01/13 18:03	1
Chlorobenzene	<5.8		5.8	0.59	ug/Kg	☼		08/01/13 18:03	1
Chloroethane	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 18:03	1
Chloroform	<5.8		5.8	0.67	ug/Kg	☼		08/01/13 18:03	1
Chloromethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 18:03	1
cis-1,2-Dichloroethene	<5.8		5.8	0.82	ug/Kg	☼		08/01/13 18:03	1
cis-1,3-Dichloropropene	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 18:03	1
Dibromochloromethane	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 18:03	1
1,1-Dichloroethane	<5.8		5.8	0.92	ug/Kg	☼		08/01/13 18:03	1
1,2-Dichloroethane	<5.8		5.8	0.86	ug/Kg	☼		08/01/13 18:03	1
1,1-Dichloroethene	<5.8		5.8	0.94	ug/Kg	☼		08/01/13 18:03	1
1,2-Dichloropropane	<5.8		5.8	0.88	ug/Kg	☼		08/01/13 18:03	1
1,3-Dichloropropene, Total	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 18:03	1
Ethylbenzene	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 18:03	1
2-Hexanone	<5.8		5.8	1.7	ug/Kg	☼		08/01/13 18:03	1
Methylene Chloride	<5.8		5.8	1.6	ug/Kg	☼		08/01/13 18:03	1
Methyl Ethyl Ketone	<5.8		5.8	2.1	ug/Kg	☼		08/01/13 18:03	1
methyl isobutyl ketone	<5.8		5.8	1.5	ug/Kg	☼		08/01/13 18:03	1
Methyl tert-butyl ether	<5.8		5.8	0.96	ug/Kg	☼		08/01/13 18:03	1
Styrene	<5.8		5.8	0.76	ug/Kg	☼		08/01/13 18:03	1
1,1,2,2-Tetrachloroethane	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 18:03	1
Tetrachloroethene	<5.8		5.8	0.89	ug/Kg	☼		08/01/13 18:03	1
Toluene	<5.8		5.8	0.81	ug/Kg	☼		08/01/13 18:03	1
trans-1,2-Dichloroethene	<5.8		5.8	0.80	ug/Kg	☼		08/01/13 18:03	1
trans-1,3-Dichloropropene	<5.8		5.8	1.0	ug/Kg	☼		08/01/13 18:03	1
1,1,1-Trichloroethane	<5.8		5.8	0.87	ug/Kg	☼		08/01/13 18:03	1
1,1,2-Trichloroethane	<5.8		5.8	0.79	ug/Kg	☼		08/01/13 18:03	1
Trichloroethene	<5.8		5.8	0.96	ug/Kg	☼		08/01/13 18:03	1
Vinyl chloride	<5.8		5.8	1.2	ug/Kg	☼		08/01/13 18:03	1
Xylenes, Total	<12		12	0.53	ug/Kg	☼		08/01/13 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 122*		*08/01/13 18:03*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*08/01/13 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*08/01/13 18:03*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*08/01/13 18:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<190		190	42	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
1,2-Dichlorobenzene	<190		190	40	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
1,3-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
1,4-Dichlorobenzene	<190		190	39	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2,2'-oxybis[1-chloropropane]	<190		190	41	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: VL3-1(0.5-1.5)-072513
Date Collected: 07/25/13 12:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-2
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370	110	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2,4,6-Trichlorophenol	<370		370	46	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2,4-Dichlorophenol	<370		370	110	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2,4-Dimethylphenol	<370	*	370	120	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2,4-Dinitrophenol	<740	*	740	190	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2,4-Dinitrotoluene	<190		190	57	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2,6-Dinitrotoluene	<190		190	44	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2-Chloronaphthalene	<190		190	42	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2-Chlorophenol	<190		190	53	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2-Methylnaphthalene	<190		190	48	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2-Methylphenol	<190		190	49	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2-Nitroaniline	<190		190	66	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
2-Nitrophenol	<370		370	58	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
3 & 4 Methylphenol	<190		190	70	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
3,3'-Dichlorobenzidine	<190		190	31	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
3-Nitroaniline	<370		370	71	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
4,6-Dinitro-2-methylphenol	<370		370	90	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
4-Bromophenyl phenyl ether	<190		190	41	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
4-Chloro-3-methylphenol	<370		370	180	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
4-Chlorophenyl phenyl ether	<190	*	190	58	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
4-Nitroaniline	<370		370	76	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Acenaphthene	**23**	**J**	37	11	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Acenaphthylene	<37		37	8.5	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Anthracene	**51**		37	8.7	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Benzo[a]anthracene	**290**		37	7.7	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Benzo[a]pyrene	**350**		37	6.7	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Benzo[b]fluoranthene	**540**		37	7.2	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Benzo[g,h,i]perylene	**310**		37	12	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Benzo[k]fluoranthene	**280**		37	8.8	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Bis(2-chloroethoxy)methane	<190		190	41	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Bis(2-chloroethyl)ether	<190		190	55	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Bis(2-ethylhexyl) phthalate	<190		190	49	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Butyl benzyl phthalate	<190		190	46	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Carbazole	**52**	**J**	190	52	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Chrysene	**410**		37	8.3	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Dibenz(a,h)anthracene	**69**		37	10	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Dibenzofuran	<190		190	44	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Diethyl phthalate	<190	*	190	62	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Dimethyl phthalate	<190		190	46	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Di-n-butyl phthalate	<190		190	47	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Di-n-octyl phthalate	<190		190	75	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Fluoranthene	**790**		37	15	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Fluorene	**25**	**J**	37	8.4	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Hexachlorobenzene	<74		74	7.3	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Hexachlorobutadiene	<190		190	48	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Hexachloroethane	<190		190	39	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: VL3-1(0.5-1.5)-072513
Date Collected: 07/25/13 12:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-2
Matrix: Solid
Percent Solids: 86.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**250**		37	12	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Isophorone	<190		190	41	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Naphthalene	<37		37	7.1	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Nitrobenzene	<37		37	11	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
N-Nitrosodi-n-propylamine	<190		190	47	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
N-Nitrosodiphenylamine	<190		190	50	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Phenanthrene	**460**		37	15	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Phenol	<190		190	58	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1
Pyrene	**890**		37	13	ug/Kg	☼	08/02/13 08:58	08/07/13 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*71*		*35 - 137*	*08/02/13 08:58*	*08/07/13 19:10*	*1*
2-Fluorobiphenyl	*58*		*30 - 119*	*08/02/13 08:58*	*08/07/13 19:10*	*1*
2-Fluorophenol	*50*		*30 - 110*	*08/02/13 08:58*	*08/07/13 19:10*	*1*
Nitrobenzene-d5	*50*		*30 - 115*	*08/02/13 08:58*	*08/07/13 19:10*	*1*
Phenol-d5	*53*		*31 - 110*	*08/02/13 08:58*	*08/07/13 19:10*	*1*
Terphenyl-d14	*89*		*36 - 134*	*08/02/13 08:58*	*08/07/13 19:10*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 03:57	1
Barium	**0.72**		0.50	0.010	mg/L		08/02/13 09:30	08/08/13 03:57	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 09:30	08/08/13 03:57	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		08/02/13 09:30	08/08/13 03:57	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:57	1
Cobalt	**0.040**		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 03:57	1
Copper	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:57	1
Iron	**0.27**		0.20	0.20	mg/L		08/02/13 09:30	08/08/13 03:57	1
Lead	**0.015**		0.0075	0.0050	mg/L		08/02/13 09:30	08/08/13 03:57	1
Manganese	**8.2**		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:57	1
Nickel	**0.032**		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 03:57	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 03:57	1
Silver	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 03:57	1
Zinc	**0.31**		0.10	0.020	mg/L		08/02/13 09:30	08/08/13 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.068**		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 20:25	1
Barium	**0.48**	**J**	0.50	0.010	mg/L		07/31/13 10:40	08/08/13 20:25	1
Beryllium	**0.0063**		0.0040	0.0040	mg/L		07/31/13 10:40	08/08/13 20:25	1
Cadmium	**0.0026**	**J**	0.0050	0.0020	mg/L		07/31/13 10:40	08/08/13 20:25	1
Chromium	**0.13**		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:25	1
Cobalt	**0.065**		0.025	0.0050	mg/L		07/31/13 10:40	08/08/13 20:25	1
Copper	**0.18**		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:25	1
Iron	**150**		0.20	0.20	mg/L		07/31/13 10:40	08/08/13 20:25	1
Lead	**0.26**		0.0075	0.0050	mg/L		07/31/13 10:40	08/08/13 20:25	1
Manganese	**1.6**		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:25	1
Nickel	**0.18**		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:25	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 20:25	1

Client Sample ID: VL3-1(0.5-1.5)-072513
Date Collected: 07/25/13 12:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-2
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	0.0050	mg/L		07/31/13 10:40	08/08/13 20:25	1
Zinc	**0.48**		0.10	0.020	mg/L		07/31/13 10:40	08/08/13 20:25	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9200**		11	1.0	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Antimony	<1.1		1.1	0.44	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Arsenic	**9.2**		0.54	0.11	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Barium	**43**		0.54	0.058	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Beryllium	**0.56**		0.22	0.019	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Cadmium	**0.94**		0.11	0.014	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Calcium	**37000**	**B**	11	3.0	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Chromium	**16**		0.54	0.063	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Cobalt	**10**	**B**	0.27	0.019	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Copper	**35**		0.54	0.048	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Iron	**20000**		11	4.5	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Lead	**44**		0.27	0.081	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Magnesium	**24000**	**B**	5.4	1.1	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Manganese	**430**	**B**	0.54	0.030	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Nickel	**27**	**B**	0.54	0.053	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Potassium	**1900**		27	1.6	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Selenium	<0.54		0.54	0.19	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Silver	<0.27		0.27	0.020	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Sodium	**3100**		540	73	mg/Kg	☼	07/28/13 17:00	08/09/13 12:05	10
Thallium	**0.44**	**J**	0.54	0.23	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Vanadium	**20**	**B**	0.27	0.040	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1
Zinc	**63**		1.1	0.22	mg/Kg	☼	07/28/13 17:00	08/08/13 23:09	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 10:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**	**J**	0.20	0.020	ug/L		07/31/13 15:30	08/01/13 10:38	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	<18		18	8.2	ug/Kg	☼	07/29/13 13:00	07/30/13 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.93**		0.200	0.200	SU			08/08/13 15:53	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59849 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.6/4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / 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	TCL metals	TCLP/SPLP metals	pH	Comments
1		BZ-2(0.5-1.5)-072513	7-25-13	1220	2	S		X	X	X	X	X	
2		VL3-1(0.5-1.5)-072513		1235									
3		VL3-2(0.5-1.5)-072513		1250									
4		VL3-3(0.5-1.5)-072513		1300									
5		CCB-1(0.5-1.5)-072513		1315									
6		CCB-2(0.5-1.5)-072513		1335									
7		CCB-3(0.5-1.5)-072513		1355									
8		CCB-4(0.5-1.5)-072513		1405									
9		WD4-1(0.5-1.5)-072513		1415									
10		WD4-1(0.5-1.5)-072513Dup	7-25-13	1415	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [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	7-25-13	1535	[illegible]	TA	7-25-13	1535
[illegible]	TA	7-25-13	1729	Sheri Scott	TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 4 of 4
Temperature °C of Cooler: 3.6, 4.0

Client	Client Project #	Preservative
Weston		
Project Name: IDOT-004		Parameter
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH	Comments
11		WD4-2(0.5-1.5)-072513	~~7-25-13~~ ~~1430~~ 7-24-13	1430	2	S	X	X	X	X	X	
12		WD4-3(0.5-1.5)-072513	↓	1435	↓	↓	↓	↓	↓	↓	↓	
13		WD4-4(0.5-1.5)-072513		1450								
14		RS4-1(0.5-1.5)-072513		1500								
15		RS4-2(0.5-1.5)-072513	7-25-13	1520	2	S	X	X	X	X	X	

T. Walls 7-25-13

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	Weston	7-25-13	1535		TA	7-25-13	1535
	TA	7-25-13	1729		TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/10/2013

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, incldluding number and street):
20922 N. Rand Road

City: Kildeer State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.167699801 (Decimal Degrees) Longitude: -88.066709516 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.167699801 Longitude: -88.066709516

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 CCB-1 AND CCB-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2664-58. SEE FIGURE 3-5 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: 500-59849-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-58
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	CCB-1(0.5-1.5)-072513	CCB-3(0.5-1.5)-072513	Soil Reference Concentrations[A]
Sample Date	7/25/2013	7/25/2013	
Location ID	CCB-1	CCB-3	
Depth	0.5 - 1.5	0.5 - 1.5	
Parameter			
Laboratory pH	8.7	8.82	<6.25,.9.0
VOCs (ug/kg)	None Detected		
SVOCs (ug/kg)			
Anthracene	79 J	14 J	1.2E+07
Benzo(a)anthracene	420	110	900 / 1100 / 1800
Benzo(a)pyrene	420	130	90 / 1300 / 2100
Benzo(b)fluoranthene	610	220	900 / 1500 / 2100
Benzo(g,h,i)perylene	380	140	---
Benzo(k)fluoranthene	240	82	9000
Chrysene	510	170	88000
Dibenzo(a,h)anthracene	90 J	15 J	90 / 200 / 420
Fluoranthene	750	260	3100000
Indeno(1,2,3-cd)pyrene	300	110	900 / 900 / 1600
Phenanthrene	460	98	---
Pyrene	870	240	2300000
TCL Metals (mg/kg)			
Aluminum, Total	2700	12000	---
Arsenic, Total	5.1	8.1	11.3 / 13
Barium, Total	21	70	1500
Beryllium, Total	0.29 J	0.65	22
Cadmium, Total	0.4 J	0.88	5.2
Calcium, Total	130000 B	38000 B	---
Chromium, Total	14	19	21
Cobalt, Total	3.4 B	9.9 B	20
Copper, Total	16	26	2900
Iron, Total	9700	20000	15000 / 15900
Lead, Total	52	31	107
Magnesium, Total	79000 B	22000 B	325000
Manganese, Total	290 B	460 B	630
Mercury, Total	0.016 J	0.037	0.89
Nickel, Total	8.8 B	21 B	100
Potassium, Total	440	1900	---
Sodium, Total	490	1500	---
Thallium, Total	ND	0.38 J	2.6
Vanadium, Total	10 B	23 B	550
Zinc, Total	39	62	5100
TCLP Metals (mg/l)			
Barium, TCLP	0.77	0.73	2
Cobalt, TCLP	0.0078 J	ND	1
Lead, TCLP	0.0059 J	ND	0.0075
Manganese, TCLP	2.1	0.44	0.15
Nickel, TCLP	0.022 J	ND	0.1
Zinc, TCLP	0.28	0.28	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	0.057	0.05
Barium, SPLP	0.43 J	0.78	2
Chromium, SPLP	ND	0.15	0.1
Cobalt, SPLP	ND	0.041	1
Copper, SPLP	0.012 J	0.18	0.65
Iron, SPLP	4	150	5
Lead, SPLP	0.011	0.12	0.0075
Manganese, SPLP	0.071	0.83	0.15
Mercury, SPLP	ND	0.00015 J	0.002
Nickel, SPLP	ND	0.15	0.1
Zinc, SPLP	0.32	0.69	5

Summary Table of ISGS Site No. 2664-58
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59849-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/10/2013 9:01:02 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: CCB-1(0.5-1.5)-072513
Date Collected: 07/25/13 13:15
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-5
Matrix: Solid
Percent Solids: 96.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.2		5.2	2.2	ug/Kg	☼		08/01/13 19:12	1
Benzene	<5.2		5.2	0.71	ug/Kg	☼		08/01/13 19:12	1
Bromodichloromethane	<5.2		5.2	0.89	ug/Kg	☼		08/01/13 19:12	1
Bromoform	<5.2		5.2	1.2	ug/Kg	☼		08/01/13 19:12	1
Bromomethane	<5.2		5.2	1.6	ug/Kg	☼		08/01/13 19:12	1
Carbon disulfide	<5.2		5.2	0.78	ug/Kg	☼		08/01/13 19:12	1
Carbon tetrachloride	<5.2		5.2	0.95	ug/Kg	☼		08/01/13 19:12	1
Chlorobenzene	<5.2		5.2	0.53	ug/Kg	☼		08/01/13 19:12	1
Chloroethane	<5.2		5.2	1.4	ug/Kg	☼		08/01/13 19:12	1
Chloroform	<5.2		5.2	0.60	ug/Kg	☼		08/01/13 19:12	1
Chloromethane	<5.2		5.2	1.1	ug/Kg	☼		08/01/13 19:12	1
cis-1,2-Dichloroethene	<5.2		5.2	0.73	ug/Kg	☼		08/01/13 19:12	1
cis-1,3-Dichloropropene	<5.2		5.2	0.68	ug/Kg	☼		08/01/13 19:12	1
Dibromochloromethane	<5.2		5.2	0.90	ug/Kg	☼		08/01/13 19:12	1
1,1-Dichloroethane	<5.2		5.2	0.82	ug/Kg	☼		08/01/13 19:12	1
1,2-Dichloroethane	<5.2		5.2	0.77	ug/Kg	☼		08/01/13 19:12	1
1,1-Dichloroethene	<5.2		5.2	0.84	ug/Kg	☼		08/01/13 19:12	1
1,2-Dichloropropane	<5.2		5.2	0.79	ug/Kg	☼		08/01/13 19:12	1
1,3-Dichloropropene, Total	<5.2		5.2	0.68	ug/Kg	☼		08/01/13 19:12	1
Ethylbenzene	<5.2		5.2	1.0	ug/Kg	☼		08/01/13 19:12	1
2-Hexanone	<5.2		5.2	1.5	ug/Kg	☼		08/01/13 19:12	1
Methylene Chloride	<5.2		5.2	1.4	ug/Kg	☼		08/01/13 19:12	1
Methyl Ethyl Ketone	<5.2		5.2	1.9	ug/Kg	☼		08/01/13 19:12	1
methyl isobutyl ketone	<5.2		5.2	1.4	ug/Kg	☼		08/01/13 19:12	1
Methyl tert-butyl ether	<5.2		5.2	0.86	ug/Kg	☼		08/01/13 19:12	1
Styrene	<5.2		5.2	0.68	ug/Kg	☼		08/01/13 19:12	1
1,1,2,2-Tetrachloroethane	<5.2		5.2	1.0	ug/Kg	☼		08/01/13 19:12	1
Tetrachloroethene	<5.2		5.2	0.79	ug/Kg	☼		08/01/13 19:12	1
Toluene	<5.2		5.2	0.73	ug/Kg	☼		08/01/13 19:12	1
trans-1,2-Dichloroethene	<5.2		5.2	0.72	ug/Kg	☼		08/01/13 19:12	1
trans-1,3-Dichloropropene	<5.2		5.2	0.93	ug/Kg	☼		08/01/13 19:12	1
1,1,1-Trichloroethane	<5.2		5.2	0.78	ug/Kg	☼		08/01/13 19:12	1
1,1,2-Trichloroethane	<5.2		5.2	0.71	ug/Kg	☼		08/01/13 19:12	1
Trichloroethene	<5.2		5.2	0.86	ug/Kg	☼		08/01/13 19:12	1
Vinyl chloride	<5.2		5.2	1.1	ug/Kg	☼		08/01/13 19:12	1
Xylenes, Total	<10		10	0.47	ug/Kg	☼		08/01/13 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 122*		*08/01/13 19:12*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*08/01/13 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/01/13 19:12*	*1*
Toluene-d8 (Surr)	*105*		*75 - 122*		*08/01/13 19:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<860		860	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
1,2-Dichlorobenzene	<860		860	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
1,3-Dichlorobenzene	<860		860	180	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
1,4-Dichlorobenzene	<860		860	180	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2,2'-oxybis[1-chloropropane]	<860		860	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5

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Client Sample ID: CCB-1(0.5-1.5)-072513
Date Collected: 07/25/13 13:15
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-5
Matrix: Solid
Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<1700		1700	490	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2,4,6-Trichlorophenol	<1700		1700	210	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2,4-Dichlorophenol	<1700		1700	520	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2,4-Dimethylphenol	<1700	*	1700	530	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2,4-Dinitrophenol	<3400	*	3400	870	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2,4-Dinitrotoluene	<860		860	260	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2,6-Dinitrotoluene	<860		860	200	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2-Chloronaphthalene	<860		860	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2-Chlorophenol	<860		860	240	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2-Methylnaphthalene	<860		860	220	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2-Methylphenol	<860		860	230	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2-Nitroaniline	<860		860	310	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
2-Nitrophenol	<1700		1700	270	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
3 & 4 Methylphenol	<860		860	320	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
3,3'-Dichlorobenzidine	<860		860	140	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
3-Nitroaniline	<1700		1700	330	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
4,6-Dinitro-2-methylphenol	<1700		1700	410	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
4-Bromophenyl phenyl ether	<860		860	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
4-Chloro-3-methylphenol	<1700		1700	820	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
4-Chloroaniline	<3400		3400	520	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
4-Chlorophenyl phenyl ether	<860	*	860	270	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
4-Nitroaniline	<1700		1700	350	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
4-Nitrophenol	<3400		3400	920	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Acenaphthene	<170		170	51	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Acenaphthylene	<170		170	39	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Anthracene	**79**	**J**	170	40	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Benzo[a]anthracene	**420**		170	36	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Benzo[a]pyrene	**420**		170	31	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Benzo[b]fluoranthene	**610**		170	33	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Benzo[g,h,i]perylene	**380**		170	57	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Benzo[k]fluoranthene	**240**		170	41	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Bis(2-chloroethoxy)methane	<860		860	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Bis(2-chloroethyl)ether	<860		860	250	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Bis(2-ethylhexyl) phthalate	<860		860	230	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Butyl benzyl phthalate	<860		860	210	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Carbazole	<860		860	240	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Chrysene	**510**		170	39	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Dibenz(a,h)anthracene	**90**	**J**	170	48	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Dibenzofuran	<860		860	200	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Diethyl phthalate	<860	*	860	280	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Dimethyl phthalate	<860		860	210	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Di-n-butyl phthalate	<860		860	220	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Di-n-octyl phthalate	<860		860	350	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Fluoranthene	**750**		170	70	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Fluorene	<170		170	39	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Hexachlorobenzene	<340		340	34	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Hexachlorobutadiene	<860		860	220	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Hexachlorocyclopentadiene	<3400		3400	790	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Hexachloroethane	<860		860	180	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5

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Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-5
Matrix: Solid
Percent Solids: 96.2

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	**300**		170	57	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Isophorone	<860		860	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Naphthalene	<170		170	33	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Nitrobenzene	<170		170	53	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
N-Nitrosodi-n-propylamine	<860		860	220	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
N-Nitrosodiphenylamine	<860		860	230	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Pentachlorophenol	<3400		3400	870	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Phenanthrene	**460**		170	71	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Phenol	<860		860	270	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5
Pyrene	**870**		170	62	ug/Kg	☼	08/02/13 08:58	08/07/13 20:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*35 - 137*	*08/02/13 08:58*	*08/07/13 20:14*	*5*
2-Fluorobiphenyl	*54*		*30 - 119*	*08/02/13 08:58*	*08/07/13 20:14*	*5*
2-Fluorophenol	*46*		*30 - 110*	*08/02/13 08:58*	*08/07/13 20:14*	*5*
Nitrobenzene-d5	*42*		*30 - 115*	*08/02/13 08:58*	*08/07/13 20:14*	*5*
Phenol-d5	*45*		*31 - 110*	*08/02/13 08:58*	*08/07/13 20:14*	*5*
Terphenyl-d14	*75*		*36 - 134*	*08/02/13 08:58*	*08/07/13 20:14*	*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		08/02/13 09:30	08/08/13 04:30	1
Barium	**0.77**		0.50	0.010	mg/L		08/02/13 09:30	08/08/13 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 09:30	08/08/13 04:30	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 09:30	08/08/13 04:30	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:30	1
Cobalt	**0.0078**	**J**	0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 04:30	1
Copper	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:30	1
Iron	<0.20		0.20	0.20	mg/L		08/02/13 09:30	08/08/13 04:30	1
Lead	**0.0059**	**J**	0.0075	0.0050	mg/L		08/02/13 09:30	08/08/13 04:30	1
Manganese	**2.1**		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:30	1
Nickel	**0.022**	**J**	0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:30	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 04:30	1
Silver	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 04:30	1
Zinc	**0.28**		0.10	0.020	mg/L		08/02/13 09:30	08/08/13 04:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 20:43	1
Barium	**0.43**	**J**	0.50	0.010	mg/L		07/31/13 10:40	08/08/13 20:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		07/31/13 10:40	08/08/13 20:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/31/13 10:40	08/08/13 20:43	1
Chromium	<0.025		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		07/31/13 10:40	08/08/13 20:43	1
Copper	**0.012**	**J**	0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:43	1
Iron	**4.0**		0.20	0.20	mg/L		07/31/13 10:40	08/08/13 20:43	1
Lead	**0.011**		0.0075	0.0050	mg/L		07/31/13 10:40	08/08/13 20:43	1
Manganese	**0.071**		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:43	1
Nickel	<0.025		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:43	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 20:43	1

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Lab Sample ID: 500-59849-5
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	0.0050	mg/L		07/31/13 10:40	08/08/13 20:43	1
Zinc	**0.32**		0.10	0.020	mg/L		07/31/13 10:40	08/08/13 20:43	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2700**		52	4.8	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Antimony	<5.2		5.2	2.1	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Arsenic	**5.1**		2.6	0.52	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Barium	**21**		2.6	0.28	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Beryllium	**0.29**	**J**	1.0	0.091	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Cadmium	**0.40**	**J**	0.52	0.066	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Calcium	**130000**	**B**	52	14	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Chromium	**14**		2.6	0.30	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Cobalt	**3.4**	**B**	1.3	0.092	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Copper	**16**		2.6	0.23	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Iron	**9700**		52	21	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Lead	**52**		1.3	0.39	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Magnesium	**79000**	**B**	26	5.3	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Manganese	**290**	**B**	2.6	0.14	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Nickel	**8.8**	**B**	2.6	0.25	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Potassium	**440**		130	7.8	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Selenium	<2.6		2.6	0.92	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Silver	<1.3		1.3	0.094	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Sodium	**490**		260	35	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Thallium	<2.6		2.6	1.1	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Vanadium	**10**	**B**	1.3	0.19	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5
Zinc	**39**		5.2	1.0	mg/Kg	☼	07/28/13 17:00	08/09/13 12:17	5

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 10:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 10:44	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	**16**	**J**	17	7.8	ug/Kg	☼	07/29/13 13:00	07/30/13 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.70**		0.200	0.200	SU			08/08/13 16:05	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: CCB-3(0.5-1.5)-072513
Date Collected: 07/25/13 13:55
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-7
Matrix: Solid
Percent Solids: 90.2

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.5		5.5	2.4	ug/Kg	☼		08/01/13 20:00	1
Benzene	<5.5		5.5	0.76	ug/Kg	☼		08/01/13 20:00	1
Bromodichloromethane	<5.5		5.5	0.95	ug/Kg	☼		08/01/13 20:00	1
Bromoform	<5.5		5.5	1.3	ug/Kg	☼		08/01/13 20:00	1
Bromomethane	<5.5		5.5	1.7	ug/Kg	☼		08/01/13 20:00	1
Carbon disulfide	<5.5		5.5	0.83	ug/Kg	☼		08/01/13 20:00	1
Carbon tetrachloride	<5.5		5.5	1.0	ug/Kg	☼		08/01/13 20:00	1
Chlorobenzene	<5.5		5.5	0.56	ug/Kg	☼		08/01/13 20:00	1
Chloroethane	<5.5		5.5	1.5	ug/Kg	☼		08/01/13 20:00	1
Chloroform	<5.5		5.5	0.64	ug/Kg	☼		08/01/13 20:00	1
Chloromethane	<5.5		5.5	1.2	ug/Kg	☼		08/01/13 20:00	1
cis-1,2-Dichloroethene	<5.5		5.5	0.78	ug/Kg	☼		08/01/13 20:00	1
cis-1,3-Dichloropropene	<5.5		5.5	0.73	ug/Kg	☼		08/01/13 20:00	1
Dibromochloromethane	<5.5		5.5	0.96	ug/Kg	☼		08/01/13 20:00	1
1,1-Dichloroethane	<5.5		5.5	0.88	ug/Kg	☼		08/01/13 20:00	1
1,2-Dichloroethane	<5.5		5.5	0.82	ug/Kg	☼		08/01/13 20:00	1
1,1-Dichloroethene	<5.5		5.5	0.90	ug/Kg	☼		08/01/13 20:00	1
1,2-Dichloropropane	<5.5		5.5	0.84	ug/Kg	☼		08/01/13 20:00	1
1,3-Dichloropropene, Total	<5.5		5.5	0.73	ug/Kg	☼		08/01/13 20:00	1
Ethylbenzene	<5.5		5.5	1.1	ug/Kg	☼		08/01/13 20:00	1
2-Hexanone	<5.5		5.5	1.6	ug/Kg	☼		08/01/13 20:00	1
Methylene Chloride	<5.5		5.5	1.5	ug/Kg	☼		08/01/13 20:00	1
Methyl Ethyl Ketone	<5.5		5.5	2.0	ug/Kg	☼		08/01/13 20:00	1
methyl isobutyl ketone	<5.5		5.5	1.5	ug/Kg	☼		08/01/13 20:00	1
Methyl tert-butyl ether	<5.5		5.5	0.92	ug/Kg	☼		08/01/13 20:00	1
Styrene	<5.5		5.5	0.73	ug/Kg	☼		08/01/13 20:00	1
1,1,2,2-Tetrachloroethane	<5.5		5.5	1.1	ug/Kg	☼		08/01/13 20:00	1
Tetrachloroethene	<5.5		5.5	0.85	ug/Kg	☼		08/01/13 20:00	1
Toluene	<5.5		5.5	0.78	ug/Kg	☼		08/01/13 20:00	1
trans-1,2-Dichloroethene	<5.5		5.5	0.76	ug/Kg	☼		08/01/13 20:00	1
trans-1,3-Dichloropropene	<5.5		5.5	0.99	ug/Kg	☼		08/01/13 20:00	1
1,1,1-Trichloroethane	<5.5		5.5	0.83	ug/Kg	☼		08/01/13 20:00	1
1,1,2-Trichloroethane	<5.5		5.5	0.76	ug/Kg	☼		08/01/13 20:00	1
Trichloroethene	<5.5		5.5	0.91	ug/Kg	☼		08/01/13 20:00	1
Vinyl chloride	<5.5		5.5	1.2	ug/Kg	☼		08/01/13 20:00	1
Xylenes, Total	<11		11	0.50	ug/Kg	☼		08/01/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 122*		*08/01/13 20:00*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*08/01/13 20:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*		*08/01/13 20:00*	*1*
Toluene-d8 (Surr)	*104*		*75 - 122*		*08/01/13 20:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<180		180	41	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
1,2-Dichlorobenzene	<180		180	40	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
1,3-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
1,4-Dichlorobenzene	<180		180	38	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2,2'-oxybis[1-chloropropane]	<180		180	41	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: CCB-3(0.5-1.5)-072513
Date Collected: 07/25/13 13:55
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-7
Matrix: Solid
Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360	100	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2,4,6-Trichlorophenol	<360		360	46	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2,4-Dichlorophenol	<360		360	110	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2,4-Dimethylphenol	<360	*	360	110	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2,4-Dinitrophenol	<740	*	740	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2,4-Dinitrotoluene	<180		180	56	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2,6-Dinitrotoluene	<180		180	44	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2-Chloronaphthalene	<180		180	41	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2-Chlorophenol	<180		180	52	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2-Methylnaphthalene	<180		180	48	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2-Methylphenol	<180		180	49	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2-Nitroaniline	<180		180	66	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
2-Nitrophenol	<360		360	57	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
3 & 4 Methylphenol	<180		180	69	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
3,3'-Dichlorobenzidine	<180		180	31	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
3-Nitroaniline	<360		360	71	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
4,6-Dinitro-2-methylphenol	<360		360	89	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
4-Bromophenyl phenyl ether	<180		180	41	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
4-Chloro-3-methylphenol	<360		360	180	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
4-Chloroaniline	<740		740	110	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
4-Chlorophenyl phenyl ether	<180	*	180	58	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
4-Nitroaniline	<360		360	75	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
4-Nitrophenol	<740		740	200	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Acenaphthene	<36		36	11	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Acenaphthylene	<36		36	8.4	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Anthracene	**14**	**J**	36	8.6	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Benzo[a]anthracene	**110**		36	7.7	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Benzo[a]pyrene	**130**		36	6.7	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Benzo[b]fluoranthene	**220**		36	7.1	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Benzo[g,h,i]perylene	**140**		36	12	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Benzo[k]fluoranthene	**82**		36	8.7	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Bis(2-chloroethoxy)methane	<180		180	40	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Bis(2-chloroethyl)ether	<180		180	54	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Bis(2-ethylhexyl) phthalate	<180		180	49	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Butyl benzyl phthalate	<180		180	46	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Carbazole	<180		180	52	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Chrysene	**170**		36	8.3	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Dibenz(a,h)anthracene	**15**	**J**	36	10	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Dibenzofuran	<180		180	44	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Diethyl phthalate	<180	*	180	61	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Dimethyl phthalate	<180		180	46	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Di-n-butyl phthalate	<180		180	46	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Di-n-octyl phthalate	<180		180	74	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Fluoranthene	**260**		36	15	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Fluorene	<36		36	8.3	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Hexachlorobenzene	<74		74	7.2	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Hexachlorobutadiene	<180		180	48	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Hexachlorocyclopentadiene	<740		740	170	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Hexachloroethane	<180		180	39	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: CCB-3(0.5-1.5)-072513
Date Collected: 07/25/13 13:55
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-7
Matrix: Solid
Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	110		36	12	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Isophorone	<180		180	41	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Naphthalene	<36		36	7.1	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Nitrobenzene	<36		36	11	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
N-Nitrosodi-n-propylamine	<180		180	47	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
N-Nitrosodiphenylamine	<180		180	50	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Pentachlorophenol	<740		740	190	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Phenanthrene	98		36	15	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Phenol	<180		180	58	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1
Pyrene	240		36	13	ug/Kg	☼	08/02/13 08:58	08/07/13 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*35 - 137*	*08/02/13 08:58*	*08/07/13 20:56*	*1*
2-Fluorobiphenyl	*50*		*30 - 119*	*08/02/13 08:58*	*08/07/13 20:56*	*1*
2-Fluorophenol	*38*		*30 - 110*	*08/02/13 08:58*	*08/07/13 20:56*	*1*
Nitrobenzene-d5	*42*		*30 - 115*	*08/02/13 08:58*	*08/07/13 20:56*	*1*
Phenol-d5	*44*		*31 - 110*	*08/02/13 08:58*	*08/07/13 20:56*	*1*
Terphenyl-d14	*60*		*36 - 134*	*08/02/13 08:58*	*08/07/13 20:56*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 04:43	1
Barium	0.73		0.50	0.010	mg/L		08/02/13 09:30	08/08/13 04:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 09:30	08/08/13 04:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 09:30	08/08/13 04:43	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:43	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 04:43	1
Copper	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:43	1
Iron	<0.20		0.20	0.20	mg/L		08/02/13 09:30	08/08/13 04:43	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/02/13 09:30	08/08/13 04:43	1
Manganese	0.44		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:43	1
Nickel	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 04:43	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 04:43	1
Silver	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 04:43	1
Zinc	0.28		0.10	0.020	mg/L		08/02/13 09:30	08/08/13 04:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.057		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 20:56	1
Barium	0.78		0.50	0.010	mg/L		07/31/13 10:40	08/08/13 20:56	1
Beryllium	0.0067		0.0040	0.0040	mg/L		07/31/13 10:40	08/08/13 20:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/31/13 10:40	08/08/13 20:56	1
Chromium	0.15		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:56	1
Cobalt	0.041		0.025	0.0050	mg/L		07/31/13 10:40	08/08/13 20:56	1
Copper	0.18		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:56	1
Iron	150		0.20	0.20	mg/L		07/31/13 10:40	08/08/13 20:56	1
Lead	0.12		0.0075	0.0050	mg/L		07/31/13 10:40	08/08/13 20:56	1
Manganese	0.83		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:56	1
Nickel	0.15		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 20:56	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 20:56	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: CCB-3(0.5-1.5)-072513
Date Collected: 07/25/13 13:55
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-7
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	0.0050	mg/L		07/31/13 10:40	08/08/13 20:56	1
Zinc	**0.69**		0.10	0.020	mg/L		07/31/13 10:40	08/08/13 20:56	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12000**		10	0.95	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Antimony	<1.0		1.0	0.42	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Arsenic	**8.1**		0.52	0.10	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Barium	**70**		0.52	0.055	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Beryllium	**0.65**		0.21	0.018	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Cadmium	**0.88**		0.10	0.013	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Calcium	**38000**	**B**	10	2.8	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Chromium	**19**		0.52	0.060	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Cobalt	**9.9**	**B**	0.26	0.018	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Copper	**26**		0.52	0.046	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Iron	**20000**		10	4.3	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Lead	**31**		0.26	0.077	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Magnesium	**22000**	**B**	5.2	1.1	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Manganese	**460**	**B**	0.52	0.028	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Nickel	**21**	**B**	0.52	0.051	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Potassium	**1900**		26	1.6	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Selenium	<0.52		0.52	0.18	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Silver	<0.26		0.26	0.019	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Sodium	**1500**		52	6.9	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Thallium	**0.38**	**J**	0.52	0.22	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Vanadium	**23**	**B**	0.26	0.038	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1
Zinc	**62**		1.0	0.21	mg/Kg	☼	07/28/13 17:00	08/08/13 23:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 10:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.15**	**J**	0.20	0.020	ug/L		07/31/13 15:30	08/01/13 10:56	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**		18	8.7	ug/Kg	☼	07/29/13 13:00	07/30/13 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.82**		0.200	0.200	SU			08/08/13 16:12	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59849 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.6/4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / 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	TCL metals	TCLP/SPLP metals	pH	Comments
1		BZ-2(0.5-1.5)-072513	7-25-13	1220	2	S		X	X	X	X	X	
2		VL3-1(0.5-1.5)-072513		1235									
3		VL3-2(0.5-1.5)-072513		1250									
4		VL3-3(0.5-1.5)-072513		1300									
5		CCB-1(0.5-1.5)-072513		1315									
6		CCB-2(0.5-1.5)-072513		1335									
7		CCB-3(0.5-1.5)-072513		1355									
8		CCB-4(0.5-1.5)-072513		1405									
9		WD4-1(0.5-1.5)-072513		1415									
10		WD4-1(0.5-1.5)-072513Dup	7-25-13	1415	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [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	7-25-13	1535	[illegible]	TA	7-25-13	1535
[illegible]	TA	7-25-13	1729	Sheri Scott	TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 4 of 4
Temperature °C of Cooler: 3.6, 4.0

Client	Client Project #	Preservative
Weston		
Project Name: IDOT-004		Parameter
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH	Comments
11		WD4-2(0.5-1.5)-072513	~~7-25-13~~ ~~1430~~ 7-24-13	1430	2	S	X	X	X	X	X	
12		WD4-3(0.5-1.5)-072513	↓	1435	↓	↓	↓	↓	↓	↓	↓	
13		WD4-4(0.5-1.5)-072513		1450								
14		RS4-1(0.5-1.5)-072513		1500								
15		RS4-2(0.5-1.5)-072513	7-25-13	1520	2	S	X	X	X	X	X	

T. Walls 7-25-13

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	Weston	7-25-13	1535		TA	7-25-13	1535
	TA	7-25-13	1729		TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/10/2013

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 334: US Rte 12 from Ela Rd to Lake Cook Rd Office Phone Number, if available: _____

Physical Site Location (address, inclduding number and street):
20900 block of N. Rand Road

City: Kildeer State: IL Zip Code: _____

County: Lake Township: _____

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

Latitude: 42.167745988 (Decimal Degrees) Longitude: -88.066223159 (-Decimal Degrees)

Identify how the lat/long data were determined:

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

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

II. Owner/Operator Information for Source Site

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

Project Name: FAP 334: US Rte 12 from Ela Rd to Lake Cook Rd

Latitude: 42.167745988 Longitude: -88.066223159

Uncontaminated Site Certification

III. Basis for Certification and Attachments

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

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

LOCATION WD4-3 WAS SAMPLED ADJACENT TO ISGS SITE No. 2664-59. SEE FIGURE 3-5 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: 500-59849-1.

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 Transporation

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:

7/5/14
Date:

STEVEN GOBELMAN
196-000598
LICENSED PROFESSIONAL GEOLOGIST
STATE OF ILLINOIS

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

Summary Table of ISGS Site No. 2664-59
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Field Sample ID	WD4-3(0.5-1.5)-072513	**Soil Reference Concentrations[A]**
Sample Date	7/25/2013	
Location ID	WD4-3	
Depth	0.5 - 1.5	
Parameter		
Laboratory pH	8.76	<6.25,.9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)anthracene	69	900 / 1100 / 1800
Benzo(a)pyrene	77	90 / 1300 / 2100
Benzo(b)fluoranthene	120	900 / 1500 / 2100
Benzo(g,h,i)perylene	71	---
Benzo(k)fluoranthene	45	9000
Chrysene	87	88000
Dibenzo(a,h)anthracene	15 J	90 / 200 / 420
Fluoranthene	160	3100000
Indeno(1,2,3-cd)pyrene	58	900 / 900 / 1600
Phenanthrene	85	---
Pyrene	130	2300000
TCL Metals (mg/kg)		
Aluminum, Total	13000	---
Arsenic, Total	11	11.3 / 13
Barium, Total	56	1500
Beryllium, Total	0.74	22
Cadmium, Total	0.82	5.2
Calcium, Total	19000 B	---
Chromium, Total	24	21
Cobalt, Total	11 B	20
Copper, Total	36	2900
Iron, Total	27000	15000 / 15900
Lead, Total	43	107
Magnesium, Total	14000 B	325000
Manganese, Total	490 B	630
Mercury, Total	0.021	0.89
Nickel, Total	30 B	100
Potassium, Total	1800	---
Sodium, Total	3500	---
Thallium, Total	0.59 J	2.6
Vanadium, Total	24 B	550
Zinc, Total	71	5100
TCLP Metals (mg/l)		
Barium, TCLP	0.64	2
Manganese, TCLP	0.68	0.15
Nickel, TCLP	0.011 J	0.1
Zinc, TCLP	0.28	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.14	0.05
Barium, SPLP	1.2	2
Beryllium, SPLP	0.013	0.004
Cadmium, SPLP	0.0062	0.005
Chromium, SPLP	0.31	0.1
Cobalt, SPLP	0.088	1
Copper, SPLP	0.39	0.65
Iron, SPLP	370	5
Lead, SPLP	0.21	0.0075
Manganese, SPLP	1.7	0.15
Mercury, SPLP	0.00041	0.002
Nickel, SPLP	0.36	0.1
Zinc, SPLP	1	5

Summary Table of ISGS Site No. 2664-59
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 334: US Route 12 (Rand Road) From Ela Road to Lake Cook Road
Lake Zurich, Deer Park, and Kildeer, Lake County, Illinois

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the blank and investigative sample.

J - Estimated concentration.

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-59849-1
Client Project/Site: IDOT - Lake Zurich - 004

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

Attn: Mr. S. Babusukumar

Authorized for release by:
8/10/2013 9:01:02 PM

Richard Wright, Project Manager II
richard.wright@testamericainc.com

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: WD4-3(0.5-1.5)-072513
Date Collected: 07/25/13 14:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-12
Matrix: Solid
Percent Solids: 82.1

Method: 8260B - VOC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<6.1		6.1	2.6	ug/Kg	☼		08/02/13 00:23	1
Benzene	<6.1		6.1	0.83	ug/Kg	☼		08/02/13 00:23	1
Bromodichloromethane	<6.1		6.1	1.0	ug/Kg	☼		08/02/13 00:23	1
Bromoform	<6.1		6.1	1.4	ug/Kg	☼		08/02/13 00:23	1
Bromomethane	<6.1		6.1	1.8	ug/Kg	☼		08/02/13 00:23	1
Carbon disulfide	<6.1		6.1	0.91	ug/Kg	☼		08/02/13 00:23	1
Carbon tetrachloride	<6.1		6.1	1.1	ug/Kg	☼		08/02/13 00:23	1
Chlorobenzene	<6.1		6.1	0.62	ug/Kg	☼		08/02/13 00:23	1
Chloroethane	<6.1		6.1	1.7	ug/Kg	☼		08/02/13 00:23	1
Chloroform	<6.1		6.1	0.70	ug/Kg	☼		08/02/13 00:23	1
Chloromethane	<6.1		6.1	1.3	ug/Kg	☼		08/02/13 00:23	1
cis-1,2-Dichloroethene	<6.1		6.1	0.86	ug/Kg	☼		08/02/13 00:23	1
cis-1,3-Dichloropropene	<6.1		6.1	0.80	ug/Kg	☼		08/02/13 00:23	1
Dibromochloromethane	<6.1		6.1	1.1	ug/Kg	☼		08/02/13 00:23	1
1,1-Dichloroethane	<6.1		6.1	0.96	ug/Kg	☼		08/02/13 00:23	1
1,2-Dichloroethane	<6.1		6.1	0.90	ug/Kg	☼		08/02/13 00:23	1
1,1-Dichloroethene	<6.1		6.1	0.98	ug/Kg	☼		08/02/13 00:23	1
1,2-Dichloropropane	<6.1		6.1	0.92	ug/Kg	☼		08/02/13 00:23	1
1,3-Dichloropropene, Total	<6.1		6.1	0.80	ug/Kg	☼		08/02/13 00:23	1
Ethylbenzene	<6.1		6.1	1.2	ug/Kg	☼		08/02/13 00:23	1
2-Hexanone	<6.1		6.1	1.8	ug/Kg	☼		08/02/13 00:23	1
Methylene Chloride	<6.1		6.1	1.6	ug/Kg	☼		08/02/13 00:23	1
Methyl Ethyl Ketone	<6.1		6.1	2.2	ug/Kg	☼		08/02/13 00:23	1
methyl isobutyl ketone	<6.1		6.1	1.6	ug/Kg	☼		08/02/13 00:23	1
Methyl tert-butyl ether	<6.1		6.1	1.0	ug/Kg	☼		08/02/13 00:23	1
Styrene	<6.1		6.1	0.80	ug/Kg	☼		08/02/13 00:23	1
1,1,2,2-Tetrachloroethane	<6.1		6.1	1.2	ug/Kg	☼		08/02/13 00:23	1
Tetrachloroethene	<6.1		6.1	0.93	ug/Kg	☼		08/02/13 00:23	1
Toluene	<6.1		6.1	0.85	ug/Kg	☼		08/02/13 00:23	1
trans-1,2-Dichloroethene	<6.1		6.1	0.84	ug/Kg	☼		08/02/13 00:23	1
trans-1,3-Dichloropropene	<6.1		6.1	1.1	ug/Kg	☼		08/02/13 00:23	1
1,1,1-Trichloroethane	<6.1		6.1	0.91	ug/Kg	☼		08/02/13 00:23	1
1,1,2-Trichloroethane	<6.1		6.1	0.83	ug/Kg	☼		08/02/13 00:23	1
Trichloroethene	<6.1		6.1	1.0	ug/Kg	☼		08/02/13 00:23	1
Vinyl chloride	<6.1		6.1	1.3	ug/Kg	☼		08/02/13 00:23	1
Xylenes, Total	<12		12	0.55	ug/Kg	☼		08/02/13 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 122*		*08/02/13 00:23*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*08/02/13 00:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 134*		*08/02/13 00:23*	*1*
Toluene-d8 (Surr)	*107*		*75 - 122*		*08/02/13 00:23*	*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	45	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
1,2-Dichlorobenzene	<200		200	43	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
1,3-Dichlorobenzene	<200		200	42	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
1,4-Dichlorobenzene	<200		200	42	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2,2'-oxybis[1-chloropropane]	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: WD4-3(0.5-1.5)-072513
Date Collected: 07/25/13 14:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-12
Matrix: Solid
Percent Solids: 82.1

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	110	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2,4,6-Trichlorophenol	<390		390	50	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2,4-Dichlorophenol	<390		390	120	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2,4-Dimethylphenol	<390	*	390	120	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2,4-Dinitrophenol	<800	*	800	200	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2,4-Dinitrotoluene	<200		200	61	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2,6-Dinitrotoluene	<200		200	47	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2-Chloronaphthalene	<200		200	45	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2-Chlorophenol	<200		200	57	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2-Methylnaphthalene	<200		200	52	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2-Methylphenol	<200		200	53	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2-Nitroaniline	<200		200	71	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
2-Nitrophenol	<390		390	62	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
3 & 4 Methylphenol	<200		200	75	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
3,3'-Dichlorobenzidine	<200		200	33	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
3-Nitroaniline	<390		390	77	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
4,6-Dinitro-2-methylphenol	<390		390	96	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
4-Bromophenyl phenyl ether	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
4-Chloro-3-methylphenol	<390		390	190	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
4-Chloroaniline	<800		800	120	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
4-Chlorophenyl phenyl ether	<200	*	200	63	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
4-Nitroaniline	<390		390	81	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
4-Nitrophenol	<800		800	210	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Acenaphthene	<39		39	12	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Acenaphthylene	<39		39	9.1	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Anthracene	<39		39	9.3	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Benzo[a]anthracene	**69**		39	8.3	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Benzo[a]pyrene	**77**		39	7.2	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Benzo[b]fluoranthene	**120**		39	7.7	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Benzo[g,h,i]perylene	**71**		39	13	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Benzo[k]fluoranthene	**45**		39	9.5	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Bis(2-chloroethoxy)methane	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Bis(2-chloroethyl)ether	<200		200	59	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Bis(2-ethylhexyl) phthalate	<200		200	53	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Butyl benzyl phthalate	<200		200	50	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Carbazole	<200		200	56	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Chrysene	**87**		39	9.0	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Dibenz(a,h)anthracene	**15**	**J**	39	11	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Dibenzofuran	<200		200	48	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Diethyl phthalate	<200	*	200	66	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Dimethyl phthalate	<200		200	50	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Di-n-butyl phthalate	<200		200	50	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Di-n-octyl phthalate	<200		200	81	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Fluoranthene	**160**		39	16	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Fluorene	<39		39	9.0	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Hexachlorobenzene	<80		80	7.8	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Hexachlorobutadiene	<200		200	52	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Hexachlorocyclopentadiene	<800		800	180	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Hexachloroethane	<200		200	42	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

Client Sample ID: WD4-3(0.5-1.5)-072513
Date Collected: 07/25/13 14:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-12
Matrix: Solid
Percent Solids: 82.1

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	58		39	13	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Isophorone	<200		200	44	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Naphthalene	<39		39	7.6	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Nitrobenzene	<39		39	12	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
N-Nitrosodi-n-propylamine	<200		200	50	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
N-Nitrosodiphenylamine	<200		200	54	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Pentachlorophenol	<800		800	200	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Phenanthrene	85		39	17	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Phenol	<200		200	63	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1
Pyrene	130		39	14	ug/Kg	☼	08/02/13 08:58	08/07/13 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*35 - 137*	*08/02/13 08:58*	*08/07/13 23:02*	*1*
2-Fluorobiphenyl	*50*		*30 - 119*	*08/02/13 08:58*	*08/07/13 23:02*	*1*
2-Fluorophenol	*45*		*30 - 110*	*08/02/13 08:58*	*08/07/13 23:02*	*1*
Nitrobenzene-d5	*43*		*30 - 115*	*08/02/13 08:58*	*08/07/13 23:02*	*1*
Phenol-d5	*51*		*31 - 110*	*08/02/13 08:58*	*08/07/13 23:02*	*1*
Terphenyl-d14	*66*		*36 - 134*	*08/02/13 08:58*	*08/07/13 23:02*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 05:47	1
Barium	0.64		0.50	0.010	mg/L		08/02/13 09:30	08/08/13 05:47	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/02/13 09:30	08/08/13 05:47	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		08/02/13 09:30	08/08/13 05:47	1
Chromium	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 05:47	1
Cobalt	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 05:47	1
Copper	<0.025		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 05:47	1
Iron	<0.20		0.20	0.20	mg/L		08/02/13 09:30	08/08/13 05:47	1
Lead	<0.0075		0.0075	0.0050	mg/L		08/02/13 09:30	08/08/13 05:47	1
Manganese	0.68		0.025	0.010	mg/L		08/02/13 09:30	08/08/13 05:47	1
Nickel	0.011	J	0.025	0.010	mg/L		08/02/13 09:30	08/08/13 05:47	1
Selenium	<0.050		0.050	0.010	mg/L		08/02/13 09:30	08/08/13 05:47	1
Silver	<0.025		0.025	0.0050	mg/L		08/02/13 09:30	08/08/13 05:47	1
Zinc	0.28		0.10	0.020	mg/L		08/02/13 09:30	08/08/13 05:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.14		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 21:42	1
Barium	1.2		0.50	0.010	mg/L		07/31/13 10:40	08/08/13 21:42	1
Beryllium	0.013		0.0040	0.0040	mg/L		07/31/13 10:40	08/08/13 21:42	1
Cadmium	0.0062		0.0050	0.0020	mg/L		07/31/13 10:40	08/08/13 21:42	1
Chromium	0.31		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:42	1
Cobalt	0.088		0.025	0.0050	mg/L		07/31/13 10:40	08/08/13 21:42	1
Copper	0.39		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:42	1
Iron	370		0.20	0.20	mg/L		07/31/13 10:40	08/08/13 21:42	1
Lead	0.21		0.0075	0.0050	mg/L		07/31/13 10:40	08/08/13 21:42	1
Manganese	1.7		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:42	1
Nickel	0.36		0.025	0.010	mg/L		07/31/13 10:40	08/08/13 21:42	1
Selenium	<0.050		0.050	0.010	mg/L		07/31/13 10:40	08/08/13 21:42	1

Client Sample ID: WD4-3(0.5-1.5)-072513
Date Collected: 07/25/13 14:35
Date Received: 07/25/13 17:29

Lab Sample ID: 500-59849-12
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	0.0050	mg/L		07/31/13 10:40	08/08/13 21:42	1
Zinc	**1.0**		0.10	0.020	mg/L		07/31/13 10:40	08/08/13 21:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		12	1.1	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Antimony	<1.2		1.2	0.49	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Arsenic	**11**		0.61	0.12	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Barium	**56**		0.61	0.065	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Beryllium	**0.74**		0.24	0.021	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Cadmium	**0.82**		0.12	0.015	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Calcium	**19000**	**B**	12	3.3	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Chromium	**24**		0.61	0.070	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Cobalt	**11**	**B**	0.30	0.022	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Copper	**36**		0.61	0.054	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Iron	**27000**		12	5.0	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Lead	**43**		0.30	0.090	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Magnesium	**14000**	**B**	6.1	1.2	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Manganese	**490**	**B**	0.61	0.033	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Nickel	**30**	**B**	0.61	0.059	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Potassium	**1800**		30	1.8	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Selenium	<0.61		0.61	0.22	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Silver	<0.30		0.30	0.022	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Sodium	**3500**		610	81	mg/Kg	☼	07/28/13 17:00	08/09/13 12:42	10
Thallium	**0.59**	**J**	0.61	0.26	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Vanadium	**24**	**B**	0.30	0.045	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1
Zinc	**71**		1.2	0.24	mg/Kg	☼	07/28/13 17:00	08/09/13 00:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.020	ug/L		08/02/13 16:00	08/05/13 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**		0.20	0.020	ug/L		07/31/13 15:30	08/01/13 11:06	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**		20	9.4	ug/Kg	☼	07/29/13 13:00	07/30/13 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.76**		0.200	0.200	SU			08/08/13 16:32	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD 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
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.
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 or MSD exceeds the control limits
F	RPD of the MS and MSD 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)
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 - Lake Zurich - 004

TestAmerica Job ID: 500-59849-1

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
Georgia	State Program	4	939	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	08-31-13
South Carolina	State Program	4	77001	08-30-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-13
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

500-59849 COC

(optional)

Report To
Contact: S. Babusukumar
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

(optional)

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 3 of 4
Temperature °C of Cooler: 3.6/4.0

Client: Weston
Client Project #:
Project Name: IDOT - 004
Project Location/State: Lake Zurich / 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	TCL metals	TCLP/SPLP metals	pH	Comments
1		BZ-2(0.5-1.5)-072513	7-25-13	1220	2	S		X	X	X	X	X	
2		VL3-1(0.5-1.5)-072513		1235									
3		VL3-2(0.5-1.5)-072513		1250									
4		VL3-3(0.5-1.5)-072513		1300									
5		CCB-1(0.5-1.5)-072513		1315									
6		CCB-2(0.5-1.5)-072513		1335									
7		CCB-3(0.5-1.5)-072513		1355									
8		CCB-4(0.5-1.5)-072513		1405									
9		WD4-1(0.5-1.5)-072513		1415									
10		WD4-1(0.5-1.5)-072513Dup	7-25-13	1415	2	S		X	X	X	X	X	

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

Sample Disposal
[ ] Return to Client [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	7-25-13	1535	[illegible]	TA	7-25-13	1535
[illegible]	TA	7-25-13	1729	Sheri Scott	TA-CHI	7/25/13	1729

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

(optional)
Report To
Contact: S. Balasubramanian
Company: Weston
Address: 750 E. Bunker Ct Ste 500
Address: Vernon Hills, IL 60061
Phone: 847-918-4018
Fax:
E-Mail:

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

Chain of Custody Record

Lab Job #: 500-59849
Chain of Custody Number:
Page 4 of 4
Temperature °C of Cooler: 3.6, 4.0

Client	Client Project #	Preservative
Weston		
Project Name: IDOT-004		Parameter
Project Location/State: Lake Zurich/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	VOCs	SVOCs	TCL metals	TCLP/SPLP metals	pH	Comments
11		WD4-2(0.5-1.5)-072513	~~7-25-13~~ ~~1430~~ 7-24-13	1430	2	S	X	X	X	X	X	
12		WD4-3(0.5-1.5)-072513	↓	1435	↓	↓	↓	↓	↓	↓	↓	
13		WD4-4(0.5-1.5)-072513		1450								
14		RS4-1(0.5-1.5)-072513		1500								
15		RS4-2(0.5-1.5)-072513	7-25-13	1520	2	S	X	X	X	X	X	

T. Walls 7-25-13

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	Weston	7-25-13	1535		TA	7-25-13	1535
	TA	7-25-13	1729		TA-CHI	7/25/13	1729

Lab Courier: TA
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Hand Delivered:

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L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/10/2013