



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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

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

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

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

I. Source Location Information

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

Project Name: FAP 344: Joliet Road Over Flag Creek Office Phone Number, if available: _____

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

7001 N. Frontage Road (ISGS Site No. 2098V-1)

City: Burr Ridge State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.76325 Longitude: - 87.90235
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 129

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: _____

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: _____

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil 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 RD-2 WAS SAMPLED ADJACENT TO ISGS SITE No. 2098V-1. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC38165.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

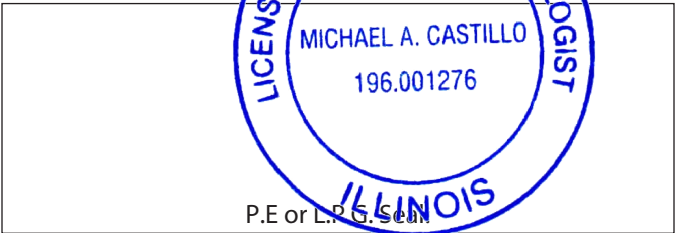
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Michael A. Castillo, P.G.
Printed Name:

6 March 2020
Date:

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



Summary Table of ISGS Site No. 2098V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Joliet Road Over Flag Creek
Indian Head Park, Cook County, Illinois

Field Sample ID	RD-2 (0-3)-042015	Soil Reference Concentrations^A
Sample Date	4/20/2015	
Location ID	RD-2	
Depth	0 - 3	
ISGS Site No.	2098V-1	
Parameter		
Laboratory pH (s.u.)	7.7	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Anthracene	20.5 J	1.20E+07
Benzo(a)anthracene	175	900 / 1100 / 1800
Benzo(a)pyrene	242	90 / 1300 / 2100
Benzo(b)fluoranthene	227	900 / 1500 / 2100
Benzo(g,h,i)perylene	164	---
bis(2-Ethylhexyl)phthalate	19 J	46000
Butyl benzyl phthalate	15.8 J	930000
Carbazole	14.3 J	600
Chrysene	213	88000
Dibenzo(a,h)anthracene	53.5 J	90 / 200 / 420
Fluoranthene	256	310000
Indeno(1,2,3-cd)pyrene	145	900 / 900 / 1600
Phenanthrene	82.3 J	---
Pyrene	241	2300000
Total Metals (mg/kg)		
Antimony, Total	0.31 J	5
Arsenic, Total	5.1	11.3 / 13
Barium, Total	33.4	1500
Beryllium, Total	0.14 J	22
Cadmium, Total	0.18 J	5.2
Calcium, Total	119000	---
Chromium, Total	10	21
Cobalt, Total	4.4	20
Copper, Total	14.4	2900
Iron, Total	10200	15000 / 15900
Lead, Total	76.1	107
Magnesium, Total	71300	325000
Manganese, Total	301	630 / 636
Mercury, Total	0.049	0.89
Nickel, Total	11.7	100
Potassium, Total	941	---
Selenium, Total	0.7 J	1.3
Sodium, Total	1470	---
Vanadium, Total	13.3	550
Zinc, Total	43.2 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	1.1	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0022 J	0.005
Chromium, TCLP	0.0006 J	0.1
Cobalt, TCLP	0.017 J	1
Copper, TCLP	0.003 J	0.65
Iron, TCLP	0.088 J	5
Lead, TCLP	0.015	0.0075
Manganese, TCLP	5.1	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.013 J	0.1
Selenium, TCLP	0.0086 J	0.05
Zinc, TCLP	0.069 J	5

Summary Table of ISGS Site No. 2098V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Joliet Road Over Flag Creek
Indian Head Park, Cook County, Illinois

Field Sample ID	RD-2 (0-3)-042015	Soil Reference Concentrations ^A
Sample Date	4/20/2015	
Location ID	RD-2	
Depth	0 - 3	
ISGS Site No.	2098V-1	
Parameter		
SPLP Metals (mg/l)		
Arsenic, SPLP	0.058	0.05
Barium, SPLP	0.89	2
Beryllium, SPLP	0.0055	0.004
Cadmium, SPLP	0.0014 J	0.005
Chromium, SPLP	0.15	0.1
Cobalt, SPLP	0.053	1
Copper, SPLP	0.14	0.65
Iron, SPLP	152	5
Lead, SPLP	0.2	0.0075
Manganese, SPLP	1.3	0.15
Mercury, SPLP	0.00068	0.002
Nickel, SPLP	0.14	0.1
Selenium, SPLP	0.0039 J	0.05
Zinc, SPLP	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.

J - Estimated concentration.

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

Technical Report for

Weston Solutions, Inc.

IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL

02056.014.015.0030

Accutest Job Number: MC38165

Sampling Date: 04/20/15

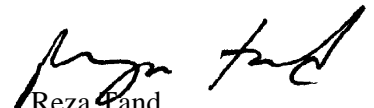
Report to:

Weston Solutions, Inc.
300 Plaza Circle #202
Mundelein, IL 60060
Babu.Babusukumar@WestonSolutions.com; Andris.Slesers@WestonSolutions.com
ATTN: Babu Babusukumar

Total number of pages in report: **329**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Pand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	RD-2 (0-3)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-8	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	91.5
Method:	SW846 8260C		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K87432.D	1	05/01/15	JM	n/a	n/a	MSK2726
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.59 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	880	290	ug/kg	
71-43-2	Benzene	ND	44	33	ug/kg	
75-27-4	Bromodichloromethane	ND	180	37	ug/kg	
75-25-2	Bromoform	ND	180	42	ug/kg	
74-83-9	Bromomethane	ND	180	41	ug/kg	
78-93-3	2-Butanone (MEK)	ND	880	290	ug/kg	
75-15-0	Carbon disulfide	ND	440	36	ug/kg	
56-23-5	Carbon tetrachloride	ND	180	36	ug/kg	
108-90-7	Chlorobenzene	ND	180	20	ug/kg	
75-00-3	Chloroethane	ND	440	34	ug/kg	
67-66-3	Chloroform	ND	180	44	ug/kg	
74-87-3	Chloromethane	ND	440	66	ug/kg	
124-48-1	Dibromochloromethane	ND	180	22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	180	35	ug/kg	
107-06-2	1,2-Dichloroethane	ND	180	32	ug/kg	
75-35-4	1,1-Dichloroethene	ND	180	60	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	180	32	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	180	35	ug/kg	
78-87-5	1,2-Dichloropropane	ND	180	38	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	180	33	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	180	17	ug/kg	
100-41-4	Ethylbenzene	ND	180	33	ug/kg	
591-78-6	2-Hexanone	ND	880	59	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	180	57	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	440	57	ug/kg	
75-09-2	Methylene chloride	ND	180	37	ug/kg	
100-42-5	Styrene	ND	440	27	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	180	18	ug/kg	
127-18-4	Tetrachloroethene	ND	180	26	ug/kg	
108-88-3	Toluene	ND	440	35	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	180	31	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	180	38	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RD-2 (0-3)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-8	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	91.5
Method:	SW846 8260C		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	180	27	ug/kg	
75-01-4	Vinyl chloride	ND	180	48	ug/kg	
1330-20-7	Xylene (total)	ND	180	30	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		65-141%
2037-26-5	Toluene-D8	100%		65-129%
460-00-4	4-Bromofluorobenzene	93%		63-137%

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
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Report of Analysis

Client Sample ID:	RD-2 (0-3)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-8	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	91.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W21665.D	1	04/27/15	KD	04/22/15	OP42781	MSW926
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.6 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	270	12	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	530	13	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	530	15	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	530	87	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	530	66	ug/kg	
95-48-7	2-Methylphenol	ND	530	21	ug/kg	
106-44-5	4-Methylphenol	ND	530	27	ug/kg	
88-75-5	2-Nitrophenol	ND	530	14	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	530	37	ug/kg	
108-95-2	Phenol	ND	270	15	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	530	13	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	530	13	ug/kg	
83-32-9	Acenaphthene	ND	110	14	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	20.5	110	13	ug/kg	J
56-55-3	Benzo(a)anthracene	175	110	14	ug/kg	
50-32-8	Benzo(a)pyrene	242	110	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	227	110	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	164	110	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	270	13	ug/kg	
85-68-7	Butyl benzyl phthalate	15.8	270	11	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	270	14	ug/kg	
106-47-8	4-Chloroaniline	ND	530	13	ug/kg	
86-74-8	Carbazole	14.3	110	13	ug/kg	J
218-01-9	Chrysene	213	110	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	270	12	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	270	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	270	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	270	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	270	14	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RD-2 (0-3)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-8	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	91.5
Method:	SW846 8270D SW846 3546		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	1,3-Dichlorobenzene	ND	270	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	530	35	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	530	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	53.5	110	13	ug/kg	J
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	270	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	270	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	270	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	270	15	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	19.0	270	9.8	ug/kg	J
206-44-0	Fluoranthene	256	110	15	ug/kg	
86-73-7	Fluorene	ND	110	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	270	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	530	130	ug/kg	
67-72-1	Hexachloroethane	ND	270	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	145	110	12	ug/kg	
78-59-1	Isophorone	ND	270	12	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	13	ug/kg	
88-74-4	2-Nitroaniline	ND	530	13	ug/kg	
99-09-2	3-Nitroaniline	ND	530	29	ug/kg	
100-01-6	4-Nitroaniline	ND	530	13	ug/kg	
91-20-3	Naphthalene	ND	110	17	ug/kg	
98-95-3	Nitrobenzene	ND	270	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	270	15	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	16	ug/kg	
85-01-8	Phenanthrene	82.3	110	14	ug/kg	J
129-00-0	Pyrene	241	110	12	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	270	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		20-114%
4165-62-2	Phenol-d5	63%		22-117%
118-79-6	2,4,6-Tribromophenol	69%		15-145%
4165-60-0	Nitrobenzene-d5	60%		17-118%
321-60-8	2-Fluorobiphenyl	66%		27-121%
1718-51-0	Terphenyl-d14	73%		39-142%

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Report of Analysis

Client Sample ID: RD-2 (0-3)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-8	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 91.5
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.31 B	0.88	0.11	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Arsenic	5.1	0.88	0.17	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Barium	33.4	4.4	0.057	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Beryllium	0.14 B	0.35	0.015	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Cadmium	0.18 B	0.35	0.027	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Calcium	119000	2200	3.8	mg/kg	5	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Chromium	10.0	0.88	0.045	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Cobalt	4.4	4.4	0.019	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Copper	14.4	2.2	0.14	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Iron	10200	8.8	1.1	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Lead	76.1	0.88	0.097	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Magnesium	71300	440	3.0	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Manganese	301	1.3	0.057	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Mercury	0.049	0.032	0.0077	mg/kg	1	04/23/15	04/23/15 SA	SW846 7471B ²	SW846 7471B ⁴
Nickel	11.7	3.5	0.049	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Potassium	941	440	3.6	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Selenium	0.70 B	0.88	0.21	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Silver	0.037 U	0.44	0.037	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Sodium	1470	440	3.9	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Thallium	0.19 U	0.88	0.19	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Vanadium	13.3	0.88	0.036	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Zinc	43.2	1.8	0.19	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA18075
- (2) Instrument QC Batch: MA18076
- (3) Prep QC Batch: MP24515
- (4) Prep QC Batch: MP24522

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: RD-2 (0-3)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-8	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 91.5
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	91.5		%	1	04/24/15	HS	SM 2540G-97 MOD
pH	7.7		su	1	04/22/15	MA	SW846 9045D

RL = Reporting Limit

4.22
4

Report of Analysis

Client Sample ID: RD-2 (0-3)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-8A	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 91.5
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Barium	1.1	D005	100	0.50	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cadmium	0.0022 B	D006	1.0	0.0040	0.00043	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Chromium	0.00060 B	D007	5.0	0.010	0.00048	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cobalt	0.017 B			0.050	0.00028	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Copper	0.0030 B			0.025	0.0024	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Iron	0.088 B			0.10	0.017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Lead	0.015	D008	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Manganese	5.1			0.015	0.0014	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	04/29/15	04/30/15 SA	SW846 7470A ²
Nickel	0.013 B			0.040	0.00050	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Selenium	0.0086 B	D010	1.0	0.025	0.0020	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Zinc	0.069 B			0.10	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹

- (1) Instrument QC Batch: MA18096
- (2) Instrument QC Batch: MA18099
- (3) Prep QC Batch: MP24544
- (4) Prep QC Batch: MP24546

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: RD-2 (0-3)-042015		Date Sampled: 04/20/15
Lab Sample ID: MC38165-8B		Date Received: 04/21/15
Matrix: SO - Soil		Percent Solids: 91.5
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.058		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Barium	0.89		0.50	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Beryllium	0.0055		0.0040	0.00025	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cadmium	0.0014 B		0.0040	0.00043	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Chromium	0.15		0.010	0.00048	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cobalt	0.053		0.050	0.00028	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Copper	0.14		0.025	0.0024	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Iron	152		0.10	0.017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Lead	0.20		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Manganese	1.3		0.015	0.0014	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Mercury	0.00068		0.00020	0.000096	mg/l	1	04/28/15	04/29/15 SA	SW846 7470A ¹
Nickel	0.14		0.040	0.00050	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Selenium	0.0039 B		0.025	0.0020	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Zinc	0.40		0.10	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²

- (1) Instrument QC Batch: MA18094
- (2) Instrument QC Batch: MA18096
- (3) Prep QC Batch: MP24540
- (4) Prep QC Batch: MP24542

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #
Accutest Quote # **MC38165**
Accutest Job #

Client / Reporting Information			Project Information			Requested Analysis (see TEST CODE sheet)												Matrix Codes		
Company Name Weston Solutions			Project Name IDOT 015- Juliet Rd. Over Flagg Creek															DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		
Street Address 300 Plaza Circle, Ste 202 City: Mundelein, IL 60060			Street Address Juliet Road City: Indian Head Park, IL																	
Project Contact Polousikumar			Project # 02036 014 05-0082																	
Phone # 224-864-7250			Client PO#																	
Sampler(s) Name(s) U. O'Henry-Skubic			Project Manager S. Babusikumar																	
Accutest Sample #	Field ID / Point of Collection	MECH/ID Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH4	NO3	HNO3	HSC04	NOVE	DI Water	ENCORE	Basalt	LAB USE ONLY			
-1	VL-2(0-1.5)-042015		4-20-15	0820	LWS	SO	3													
-2	VL-1(0-1.5)-042015			0818			3													
-3	FC-2(0-4)-042015			0840			3													
-4	FC-2(0-4)-042015D			0840			3													
-5	FC-2(4-9)-042015			0845			3													
-6	FC-1(0-4)-042015			0900			4													
-7	FC-1(4-9)-042015			0915			4													
-8	RD-2(0-3)-042015			0930			3													
-9	RD-1(0-3)-042015			0945			3													
-10	ROW-1(0-2.5)-042015			0955			3										IOB			
-11	ROW-2(0-2.5)-042015			1010			3													
-12	ROW-2(0-2.5)-042015D		4-20-15	1010	LWS	SO	3													
Data Deliverable Information																Comments / Special Instructions				
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink			Approved By (Accutest PM): / Date:			Commercial "A" (Level 1) NYASP Category A Commercial "B" (Level 2) NYASP Category B FULLT1 (Level 3+4) State Forms CT RCP EDD Format MA MCP Other														
Sample Custody must be documented below each time samples change possession, including courier delivery.																				
Relinquished by Sampler: Date Time: 4-20-15 13:10			Received By: Date Time: 4/20/15 17:05			Relinquished By: Date Time: 4/20/15 12:23			Received By: Date Time:			CHICAGO SC			2 FX					
Relinquished by Sampler: Date Time: 4/20/15			Received By: Date Time:			Relinquished By: Date Time:			Received By: Date Time:			4			4					
Relinquished by: Date Time:					Received By: Date Time:					Custody Seal # <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable <input type="checkbox"/>			On Ice <input type="checkbox"/>			Cooler Temp. 20.0		

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Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes							
Company Name Winston Solutions Street Address 300 Plaza Circle, Ste. 202 City State Zip Mundelein, IL 60060 Project Contact S. Babus, Kumar Phone # 224-864-7250 Fax # 847-72316 Sampler(s) Name(s) U. Doherty Skubic 224-844-7234		Project Name IDOT 015-Joliet Road Over Flagg Creek Street Joliet Road Billing Information (If different from Report to) Company Name Indent Head Park Street Address 02056-04-015-0030 City State Zip Attention: PO#		Accutest Quote # MC38165 Accutest Job # MC38165 Matrix Codes DW - Drinking Water GW - Ground Water VW - Vialer SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																			
Acquist Sample #	Field ID / Point of Collection	MEQHDI Val #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEMH	EMCORE	Residuals	LAB USE ONLY						
-13	TQ-1(0-25)-042015		4-20-15	1030	MS		3																
-14	TQ-2(0-25)-042015			1045			3																
-15	FC-3(0-4)-042015			1055			4																
-16	FC-3(0-4)-042015			1100			4																
-17	FC-4(0-4)-042015			1115			4																
-18	FC-4(4-9)-042015			1125			4																
-19	CR-1(0-15)-042015			1140			3																
-20	CR-2(0-15)-042015		4-20-15	1155	MS		3																
	* LAB ITEM *																						
Data Deliverable Information																							
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink						Approved By (Accutest PMI) / Date: _____ _____ _____ _____						<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary						<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other _____					
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: 1/ M. Babus Date Time: 4/20/15 1520		Received By: 1/ [Signature] Date Time: 4/20/15 1700		Relinquished By: 2/ [Signature] Date Time: 4/20/15 2124		Received By: 2/ [Signature] Date Time: 4/20/15 2124		Relinquished by: 3/ [Signature] Date Time: 4/20/15		Received By: 3/ [Signature] Date Time: 4/20/15		Relinquished by: 4/ [Signature] Date Time: 4/20/15		Received By: 4/ [Signature] Date Time: 4/20/15		Relinquished by: 5/ [Signature] Date Time: 4/20/15		Received By: 5/ [Signature] Date Time: 4/20/15					
CHICAGO SC Intact <input type="checkbox"/> Not Intact <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp. <input type="checkbox"/>																							

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5



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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

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

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

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

I. Source Location Information

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

Project Name: FAP 344: Joliet Road Over Flag Creek Office Phone Number, if available: _____

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

7100 block of Joliet Road (ISGS Site No. 2098V-2)

City: Burr Ridge State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.76301 Longitude: - 87.90311
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 17

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: _____

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: _____

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil 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 ROW-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2098V-2. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC38165.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

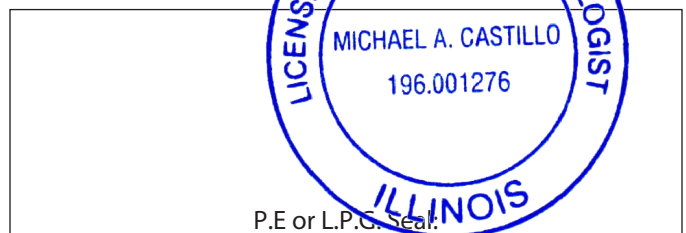
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Michael A. Castillo, P.G.
Printed Name:

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

6 March 2020
Date:



Summary Table of ISGS Site No. 2098V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Joliet Road Over Flag Creek
Indian Head Park, Cook County, Illinois

Field Sample ID	ROW-1 (0-2.5)-042015	Soil Reference Concentrations^A
Sample Date	4/20/2015	
Location ID	ROW-1	
Depth	0 - 2.5	
ISGS Site No.	2098V-2	
Parameter		
Laboratory pH (s.u.)	8.3	<6.25,>9.0
VOCs (ug/kg)	None Detected	
SVOCs (ug/kg)		
Benzo(a)pyrene	14.4 J	90 / 1300 / 2100
bis(2-Ethylhexyl)phthalate	25.8 J	46000
Fluoranthene	23.7 J	3100000
Pyrene	21.1 J	2300000
Total Metals (mg/kg)		
Antimony, Total	0.47 J	5
Arsenic, Total	6.6	11.3 / 13
Barium, Total	17.1	1500
Beryllium, Total	0.12 J	22
Cadmium, Total	ND	5.2
Calcium, Total	181000	---
Chromium, Total	3.3	21
Cobalt, Total	2.3 J	20
Copper, Total	8.4	2900
Iron, Total	14200	15000 / 15900
Lead, Total	14.2	107
Magnesium, Total	113000	325000
Manganese, Total	198	630 / 636
Mercury, Total	0.018 J	0.89
Nickel, Total	6	100
Potassium, Total	570	---
Selenium, Total	0.96	1.3
Sodium, Total	466 J	---
Vanadium, Total	5.2	550
Zinc, Total	16.1 J	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	1	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	0.0014 J	0.005
Chromium, TCLP	0.002 J	0.1
Cobalt, TCLP	0.001 J	1
Copper, TCLP	ND	0.65
Iron, TCLP	0.43	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.76	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.011 J	0.1
Selenium, TCLP	0.0099 J	0.05
Zinc, TCLP	0.045 J	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.16	0.05
Barium, SPLP	1.2	2
Beryllium, SPLP	0.012	0.004
Cadmium, SPLP	0.0023 J	0.005
Chromium, SPLP	0.29	0.1
Cobalt, SPLP	0.078	1
Copper, SPLP	0.36	0.65
Iron, SPLP	340	5
Lead, SPLP	0.15	0.0075
Manganese, SPLP	1.3	0.15
Mercury, SPLP	0.00041	0.002
Nickel, SPLP	0.32	0.1
Selenium, SPLP	ND	0.05
Zinc, SPLP	0.87	5

Summary Table of ISGS Site No. 2098V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Joliet Road Over Flag Creek
Indian Head Park, Cook County, Illinois


Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

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

Technical Report for

Weston Solutions, Inc.

IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL

02056.014.015.0030

Accutest Job Number: MC38165

Sampling Date: 04/20/15

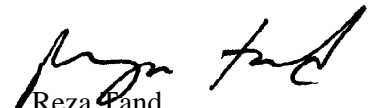
Report to:

Weston Solutions, Inc.
300 Plaza Circle #202
Mundelein, IL 60060
Babu.Babusukumar@WestonSolutions.com; Andris.Slesers@WestonSolutions.com
ATTN: Babu Babusukumar

Total number of pages in report: **329**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Pand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID:	ROW-1 (0-2.5)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-10	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8260C		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K87434.D	1	05/01/15	JM	n/a	n/a	MSK2726
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.93 g	10.0 ml	100 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	700	230	ug/kg	
71-43-2	Benzene	ND	35	26	ug/kg	
75-27-4	Bromodichloromethane	ND	140	30	ug/kg	
75-25-2	Bromoform	ND	140	33	ug/kg	
74-83-9	Bromomethane	ND	140	33	ug/kg	
78-93-3	2-Butanone (MEK)	ND	700	240	ug/kg	
75-15-0	Carbon disulfide	ND	350	29	ug/kg	
56-23-5	Carbon tetrachloride	ND	140	29	ug/kg	
108-90-7	Chlorobenzene	ND	140	16	ug/kg	
75-00-3	Chloroethane	ND	350	28	ug/kg	
67-66-3	Chloroform	ND	140	35	ug/kg	
74-87-3	Chloromethane	ND	350	53	ug/kg	
124-48-1	Dibromochloromethane	ND	140	18	ug/kg	
75-34-3	1,1-Dichloroethane	ND	140	28	ug/kg	
107-06-2	1,2-Dichloroethane	ND	140	26	ug/kg	
75-35-4	1,1-Dichloroethene	ND	140	48	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	140	25	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	140	28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	140	31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	140	26	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	140	14	ug/kg	
100-41-4	Ethylbenzene	ND	140	27	ug/kg	
591-78-6	2-Hexanone	ND	700	47	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	140	46	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	350	46	ug/kg	
75-09-2	Methylene chloride	ND	140	29	ug/kg	
100-42-5	Styrene	ND	350	22	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	140	14	ug/kg	
127-18-4	Tetrachloroethene	ND	140	21	ug/kg	
108-88-3	Toluene	ND	350	28	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	140	24	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	140	30	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ROW-1 (0-2.5)-042015		Date Sampled: 04/20/15
Lab Sample ID: MC38165-10		Date Received: 04/21/15
Matrix: SO - Soil		Percent Solids: 83.6
Method: SW846 8260C		
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	140	22	ug/kg	
75-01-4	Vinyl chloride	ND	140	38	ug/kg	
1330-20-7	Xylene (total)	ND	140	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		65-141%
2037-26-5	Toluene-D8	99%		65-129%
460-00-4	4-Bromofluorobenzene	93%		63-137%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.28
4

Report of Analysis

Client Sample ID:	ROW-1 (0-2.5)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-10	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R43629.D	1	04/24/15	KD	04/22/15	OP42781	MSR1607
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	300	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	590	15	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	590	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	590	96	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	590	74	ug/kg	
95-48-7	2-Methylphenol	ND	590	23	ug/kg	
106-44-5	4-Methylphenol	ND	590	30	ug/kg	
88-75-5	2-Nitrophenol	ND	590	16	ug/kg	
100-02-7	4-Nitrophenol	ND	1200	110	ug/kg	
87-86-5	Pentachlorophenol	ND	590	42	ug/kg	
108-95-2	Phenol	ND	300	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	590	15	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	590	15	ug/kg	
83-32-9	Acenaphthene	ND	120	16	ug/kg	
208-96-8	Acenaphthylene	ND	120	12	ug/kg	
120-12-7	Anthracene	ND	120	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	120	15	ug/kg	
50-32-8	Benzo(a)pyrene	14.4	120	13	ug/kg	J
205-99-2	Benzo(b)fluoranthene	ND	120	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	120	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	300	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	300	12	ug/kg	
91-58-7	2-Chloronaphthalene	ND	300	16	ug/kg	
106-47-8	4-Chloroaniline	ND	590	15	ug/kg	
86-74-8	Carbazole	ND	120	14	ug/kg	
218-01-9	Chrysene	ND	120	15	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	300	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	300	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	300	21	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	300	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	300	15	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ROW-1 (0-2.5)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-10	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270D SW846 3546		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	1,3-Dichlorobenzene	ND	300	17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	300	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	590	39	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	590	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	300	30	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	14	ug/kg	
132-64-9	Dibenzofuran	ND	120	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	300	31	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	300	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	300	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	300	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	25.8	300	11	ug/kg	J
206-44-0	Fluoranthene	23.7	120	16	ug/kg	J
86-73-7	Fluorene	ND	120	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	300	18	ug/kg	
87-68-3	Hexachlorobutadiene	ND	300	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	590	150	ug/kg	
67-72-1	Hexachloroethane	ND	300	14	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	120	13	ug/kg	
78-59-1	Isophorone	ND	300	14	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	15	ug/kg	
88-74-4	2-Nitroaniline	ND	590	15	ug/kg	
99-09-2	3-Nitroaniline	ND	590	32	ug/kg	
100-01-6	4-Nitroaniline	ND	590	15	ug/kg	
91-20-3	Naphthalene	ND	120	19	ug/kg	
98-95-3	Nitrobenzene	ND	300	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	300	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	300	18	ug/kg	
85-01-8	Phenanthrene	ND	120	16	ug/kg	
129-00-0	Pyrene	21.1	120	14	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	300	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		20-114%
4165-62-2	Phenol-d5	52%		22-117%
118-79-6	2,4,6-Tribromophenol	70%		15-145%
4165-60-0	Nitrobenzene-d5	54%		17-118%
321-60-8	2-Fluorobiphenyl	60%		27-121%
1718-51-0	Terphenyl-d14	82%		39-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ROW-1 (0-2.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-10	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 83.6
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.47 B	0.94	0.11	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Arsenic	6.6	0.94	0.18	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Barium	17.1	4.7	0.061	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Beryllium	0.12 B	0.38	0.016	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Cadmium	0.029 U	0.38	0.029	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Calcium	181000	2400	4.1	mg/kg	5	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Chromium	3.3	0.94	0.048	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Cobalt	2.3 B	4.7	0.021	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Copper	8.4	2.4	0.15	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Iron	14200	9.4	1.2	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Lead	14.2	0.94	0.10	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Magnesium	113000	2400	16	mg/kg	5	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Manganese	198	1.4	0.061	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Mercury	0.018 B	0.037	0.0090	mg/kg	1	04/23/15	04/23/15 SA	SW846 7471B ²	SW846 7471B ⁴
Nickel	6.0	3.8	0.053	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Potassium	570	470	3.9	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Selenium	0.96	0.94	0.23	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Silver	0.040 U	0.47	0.040	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Sodium	466 B	470	4.1	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Thallium	0.21 U	0.94	0.21	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Vanadium	5.2	0.94	0.039	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³
Zinc	16.1	1.9	0.20	mg/kg	1	04/22/15	04/23/15 VY	SW846 6010C ¹	SW846 3050B ³

- (1) Instrument QC Batch: MA18075
- (2) Instrument QC Batch: MA18077
- (3) Prep QC Batch: MP24515
- (4) Prep QC Batch: MP24523

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: ROW-1 (0-2.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-10	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 83.6
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	83.6		%	1	04/24/15	HS	SM 2540G-97 MOD
pH	8.3		su	1	04/22/15	MA	SW846 9045D

RL = Reporting Limit

4.28
4

Report of Analysis

Client Sample ID: ROW-1 (0-2.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-10A	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 83.6
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Barium	1.0	D005	100	0.50	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cadmium	0.0014 B	D006	1.0	0.0040	0.00043	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Chromium	0.0020 B	D007	5.0	0.010	0.00048	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cobalt	0.0010 B			0.050	0.00028	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Copper	0.0024 U			0.025	0.0024	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Iron	0.43			0.10	0.017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Lead	0.0017 U	D008	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Manganese	0.76			0.015	0.0014	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	04/29/15	04/30/15 SA	SW846 7470A ²
Nickel	0.011 B			0.040	0.00050	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Selenium	0.0099 B	D010	1.0	0.025	0.0020	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Zinc	0.045 B			0.10	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹

- (1) Instrument QC Batch: MA18096
- (2) Instrument QC Batch: MA18099
- (3) Prep QC Batch: MP24544
- (4) Prep QC Batch: MP24546

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

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4

Report of Analysis

Client Sample ID: ROW-1 (0-2.5)-042015		Date Sampled: 04/20/15
Lab Sample ID: MC38165-10B		Date Received: 04/21/15
Matrix: SO - Soil		Percent Solids: 83.6
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.16		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Barium	1.2		0.50	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Beryllium	0.012		0.0040	0.00025	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cadmium	0.0023 B		0.0040	0.00043	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Chromium	0.29		0.010	0.00048	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cobalt	0.078		0.050	0.00028	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Copper	0.36		0.025	0.0024	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Iron	340		0.50	0.085	mg/l	5	04/28/15	04/29/15 VY	SW846 6010C ²
Lead	0.15		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Manganese	1.3		0.015	0.0014	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Mercury	0.00041		0.00020	0.000096	mg/l	1	04/28/15	04/29/15 SA	SW846 7470A ¹
Nickel	0.32		0.040	0.00050	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Selenium	0.0020 U		0.025	0.0020	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Zinc	0.87		0.10	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²

- (1) Instrument QC Batch: MA18094
- (2) Instrument QC Batch: MA18096
- (3) Prep QC Batch: MP24540
- (4) Prep QC Batch: MP24542

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes								
Company Name Weston Solutions		Project Name 1DOT 015- Juliet Rd. Over Flagg Creek		<div style="float: right; border: 1px solid black; padding: 2px;"> Accutest Job # MC38165 </div>												DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank								
Street Address 300 Plaza Circle, Ste 202		Street Juliet Road																						
City, State, Zip Waukegan, IL 60060		City, State, Zip Indian Head Park, IL																						
Project Contact S. Babusikumar		Project # 02036 014 95-0087																						
Phone # 224-864-7250		Client PO#																						
Sampler(s) Name(s) M. O'Henry-Skubic		Project Manager S. Babusikumar																						
Account Sample #	Field ID / Point of Collection	MECH/DI Viol #	Collection		Sampled by	Matrix	# of bottles	Number of preserved Bottles											LAB USE ONLY					
			Date	Time				HCl	NH4H	HNO3	H2SO4	NONE	DI Water	MEQ	ENCORE	Bottle/lin								
-1	VL-2(0-1.5)-042015	---	4-20-15	0810	ms	SO	3										X	YDCS						
-2	VL-1(0-1.5)-042015	---		0818			3											X	SNOCs					
-3	FC-2(0-4)-042015	---		0840			3											X	TOTAL NITRATES					
-4	FC-2(0-4)-042015D	---		0840			3											X	TOTAL RCP NITRATES					
-5	FC-2(4-9)-042015	---		0845			3											X	PH					
-6	FC-1(0-4)-042015	---		0900			4											X	POSTCARD					
-7	FC-1(4-9)-042015	---		0915			4											X						
-8	RD-2(0-3)-042015	---		0930			3																	
-9	RD-1(0-3)-042015	---		0945			3																	
-10	ROW-1(0-2.5)-042015	---		0955			3																	
-11	ROW-2(0-2.5)-042015	---	↓	1010	↓	↓	3																	
-12	ROW-2(0-2.5)-042015D	---	4-20-15	1010	ms	SO	3											X						
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink												Approved By (Accutest PM): I Date: _____ <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary												Comments / Special Instructions
Sample Custody must be documented below each time samples change possession, including courier delivery.																								
Relinquished by Sampler: 1 M. O'Henry-Skubic		Date Time: 4/20/15 13:10	Received By: 1 S. Babusikumar		Date Time: 4/20/15 17:00	Relinquished By: 2 FX		Date Time: 4/20/15 17:00	Received By: 3 FX		Date Time: 4/20/15 17:00	Relinquished By: 4 FX		Date Time: 4/20/15 17:00	Received By: 5 FX		Date Time: 4/20/15 17:00							
Relinquished by Sampler: 3 FX		Date Time: 4/20/15	Received By: 3 FX		Date Time: 4/20/15	Relinquished By: 4 FX		Date Time: 4/20/15	Received By: 5 FX		Date Time: 4/20/15	Relinquished By: 5 FX		Date Time: 4/20/15	Received By: 5 FX		Date Time: 4/20/15							
Relinquished by Sampler: 5		Date Time:	Received By: 5		Date Time:	Relinquished By:		Date Time:	Received By:		Date Time:	Relinquished By:		Date Time:	Received By:		Date Time:							
Custody Seal #								<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact								Preserved where applicable <input type="checkbox"/>		On Ice Cooler Temp. <input checked="" type="checkbox"/> 09° 2.0°						

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Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)	Matrix Codes																		
Company Name Whiston Solutions		Project Name IDOT 015-Joliet Road Over Flagg Creek		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">VOCs</div> <div style="margin-bottom: 10px;">SVOCs</div> <div style="margin-bottom: 10px;">TOTAL Metals</div> <div style="margin-bottom: 10px;">TOX/SLRP Metals</div> <div style="margin-bottom: 10px;">PH</div> <div style="margin-bottom: 10px;">Pesticides</div> </div>	DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB- Equipment Blank RB- Rinse Blank TB-Trip Blank																		
Street Address 300722a Circle, Ste. 202		Street Joliet Road																					
City State Zip Mundelein, IL 60060		City Indian Head Park, IL																					
Project Contact S. Babus, Kumar Phone # 224-864-7250 Fax # 864-7234		Project # 02056.04-015.0030																					
Sampler(s) Name(s) U. Doheny-Skubic Phone # 224-864-7234		Client PO#																					
Acquies Sample #	Field ID / Point of Collection	MEQ/MDI Val #	Collection		Matrix	# of bottles	Number of preserved Bottles										LAB USE ONLY						
			Date	Time			HCl	NaOH	HNO3	H2SO4	NONE	DI Water	ENCORE	MEDH	Residuals								
-13	TQ-1(0-25)-042015	---	4-20-15	1030	WGS	3										X	X	X	X	X			
-14	TQ-2(0-25)-042015	---		1045		3																	
-15	FC-3(0-4)-042015	---		1055		4																	
-16	FC-3(0-4)-042015	---		1100		4																	
-17	FC-4(0-4)-042015	---		1115		4																	
-18	FC-4(4-9)-042015	---		1125		4																	
-19	CR-1(0-1.5)-042015	---		1140		3																	
-20	CR-2(0-1.5)-042015	---	4-20-15	1155	WGS	3										X	X	X	X	X			
* LAB ITEM *																							
Turnaround Time (Business days)				Approved By (Accutest PMI) / Date:				Data Deliverable Information				Comments / Special Instructions											
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA Lablink</small>								<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary</small>															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: 1/ <i>[Signature]</i> Date Time: 4/20/15 1520		Received By: 1/ <i>[Signature]</i> Date Time: 4/20/15 1700		Relinquished By: 2/ <i>[Signature]</i> Date Time: 4/21/15		Received By: 2/ <i>[Signature]</i> Date Time: 4/21/15		Relinquished By: 3/ <i>[Signature]</i> Date Time: 4/21/15		Received By: 3/ <i>[Signature]</i> Date Time: 4/21/15		Relinquished By: 4/ <i>[Signature]</i> Date Time: 4/21/15		Received By: 4/ <i>[Signature]</i> Date Time: 4/21/15		Relinquished By: 5/ <i>[Signature]</i> Date Time: 4/21/15		Received By: 5/ <i>[Signature]</i> Date Time: 4/21/15					
																				<input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact <input type="checkbox"/> On Ice Cooler Temp.			

5.1 5



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

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

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

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

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

I. Source Location Information

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

Project Name: FAP 344: Joliet Road Over Flag Creek Office Phone Number, if available: _____

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

7045 Joliet Road (ISGS Site No. 2098V-5)

City: Indian Head Park State: IL Zip Code: _____

County: Cook Township: _____

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

Latitude: 41.76365 Longitude: - 87.90065
(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: _____

Approximate Start Date (mm/dd/yyyy): TBD Approximate End Date (mm/dd/yyyy): TBD

Estimated Volume of debris (cu. Yd.): 127

II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: _____

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 W. Center Court

PO Box: _____

City: Schaumburg State: IL

Zip Code: 60196 Phone: _____

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil 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 CR-1 AND CR-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2098V-5. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TEST AMERICA ANALYTICAL REPORT - JOB ID: MC38165.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

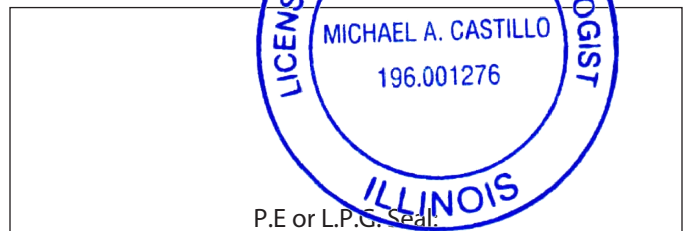
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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

Michael A. Castillo, P.G.
Printed Name:

6 March 2020
Date:

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



Summary Table of ISGS Site No. 2098V-5
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Joliet Road Over Flag Creek
Indian Head Park, Cook County, Illinois

Field Sample ID	CR-1 (0-1.5)-042015	CR-2 (0-1.5)-042015	Soil Reference Concentrations ^A
Sample Date	4/20/2015	4/20/2015	
Location ID	CR-1	CR-2	
Depth	0 - 1.5	0 - 1.5	
ISGS Site No.	2098V-5	2098V-5	
Parameter			
Laboratory pH (s.u.)	8.6	8.4	<6.25,>9.0
VOCs (ug/kg)			
Methylene chloride	1.9 J	2.3	20
Trichloroethene	8.2	2.9	60
SVOCs (ug/kg)			
Anthracene	19.3 J	25.7 J	1.20E+07
Benzo(a)anthracene	93.2 J	119	900 / 1100 / 1800
Benzo(a)pyrene	109 J	132	90 / 1300 / 2100
Benzo(b)fluoranthene	117	135	900 / 1500 / 2100
Benzo(g,h,i)perylene	111	106 J	---
bis(2-Ethylhexyl)phthalate	31.3 J	43 J	46000
Carbazole	ND	18.5 J	600
Chrysene	105 J	146	88000
Dibenzo(a,h)anthracene	ND	32.6 J	90 / 200 / 420
Fluoranthene	159	247	3100000
Indeno(1,2,3-cd)pyrene	86.5 J	81.2 J	900 / 900 / 1600
Phenanthrene	68.5 J	109 J	---
Pyrene	142	200	2300000
Total Metals (mg/kg)			
Antimony, Total	0.21 J	0.19 J	5
Arsenic, Total	5.9	5.5	11.3 / 13
Barium, Total	47.9	41.2	1500
Beryllium, Total	0.27 J	0.21 J	22
Cadmium, Total	0.29 J	0.24 J	5.2
Calcium, Total	106000	93300	---
Chromium, Total	13.9	16.7	21
Cobalt, Total	5.5	5.2	20
Copper, Total	19.3	15.7	2900
Iron, Total	14000	10600	15000 / 15900
Lead, Total	66.6	93.7	107
Magnesium, Total	51200	51500	325000
Manganese, Total	386	305	630 / 636
Mercury, Total	0.027 J	0.031 J	0.89
Nickel, Total	13.7	12.7	100
Potassium, Total	1350	832	---
Selenium, Total	0.4 J	0.37 J	1.3
Sodium, Total	392 J	825	---
Thallium, Total	0.3 J	ND	2.6
Vanadium, Total	14.8	15.2	550
Zinc, Total	50.6	47.3	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.64	0.97	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	0.0019 J	0.0021 J	0.005
Chromium, TCLP	0.0097 J	0.0013 J	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	0.0051 J	0.0041 J	0.65
Iron, TCLP	0.048 J	0.043 J	5
Lead, TCLP	0.0049 J	0.0027 J	0.0075
Manganese, TCLP	0.29	0.87	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	0.0065 J	0.0056 J	0.1
Selenium, TCLP	0.0069 J	0.0094 J	0.05
Zinc, TCLP	0.045 J	0.084 J	5

Summary Table of ISGS Site No. 2098V-5
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 344: Joliet Road Over Flag Creek
Indian Head Park, Cook County, Illinois

Field Sample ID	CR-1 (0-1.5)-042015	CR-2 (0-1.5)-042015	Soil Reference Concentrations ^A
Sample Date	4/20/2015	4/20/2015	
Location ID	CR-1	CR-2	
Depth	0 - 1.5	0 - 1.5	
ISGS Site No.	2098V-5	2098V-5	
Parameter			
SPLP Metals (mg/l)			
Arsenic, SPLP	0.014	0.052	0.05
Barium, SPLP	0.28 J	0.73	2
Beryllium, SPLP	0.001 J	0.0037 J	0.004
Cadmium, SPLP	0.0008 J	0.0026 J	0.005
Chromium, SPLP	0.034	0.14	0.1
Cobalt, SPLP	0.0081 J	0.041 J	1
Copper, SPLP	0.042	0.16	0.65
Iron, SPLP	31.3	128	5
Lead, SPLP	0.074	0.43	0.0075
Manganese, SPLP	0.23	1.1	0.15
Mercury, SPLP	ND	0.00017 J	0.002
Nickel, SPLP	0.025 J	0.1	0.1
Selenium, SPLP	ND	0.0037 J	0.05
Zinc, SPLP	0.15	0.65	5

Notes:

--- - not applicable or value not available.

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

ND - Constituent not detected above the reporting limit.

J - Estimated concentration.

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

Technical Report for

Weston Solutions, Inc.

IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL

02056.014.015.0030

Accutest Job Number: MC38165

Sampling Date: 04/20/15

Report to:

Weston Solutions, Inc.
300 Plaza Circle #202
Mundelein, IL 60060
Babu.Babusukumar@WestonSolutions.com; Andris.Slesers@WestonSolutions.com
ATTN: Babu Babusukumar

Total number of pages in report: 329



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Report of Analysis

Client Sample ID: CR-1 (0-1.5)-042015	
Lab Sample ID: MC38165-19	Date Sampled: 04/20/15
Matrix: SO - Soil	Date Received: 04/21/15
Method: SW846 8260C	Percent Solids: 89.2
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M72781.D	1	05/04/15	TT	n/a	n/a	MSM2591
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.06 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	3.6	ug/kg	
71-43-2	Benzene	ND	0.55	0.41	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.47	ug/kg	
75-25-2	Bromoform	ND	2.2	0.53	ug/kg	
74-83-9	Bromomethane	ND	2.2	0.52	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	3.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.45	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.45	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.25	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.44	ug/kg	
67-66-3	Chloroform	ND	2.2	0.56	ug/kg	
74-87-3	Chloromethane	ND	5.5	0.83	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	0.44	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	0.41	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.2	0.76	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.2	0.40	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.2	0.45	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.42	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	0.42	ug/kg	
591-78-6	2-Hexanone	ND	11	0.75	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	0.72	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.5	0.72	ug/kg	
75-09-2	Methylene chloride	1.9	2.2	0.46	ug/kg	J
100-42-5	Styrene	ND	5.5	0.35	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.22	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.33	ug/kg	
108-88-3	Toluene	ND	5.5	0.44	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.39	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.48	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.55
 4

Report of Analysis

Client Sample ID: CR-1 (0-1.5)-042015		Date Sampled: 04/20/15
Lab Sample ID: MC38165-19		Date Received: 04/21/15
Matrix: SO - Soil		Percent Solids: 89.2
Method: SW846 8260C		
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	8.2	2.2	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.60	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	0.39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		65-141%
2037-26-5	Toluene-D8	94%		65-129%
460-00-4	4-Bromofluorobenzene	87%		63-137%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: CR-1 (0-1.5)-042015		Date Sampled: 04/20/15
Lab Sample ID: MC38165-19		Date Received: 04/21/15
Matrix: SO - Soil		Percent Solids: 89.2
Method: SW846 8270D SW846 3546		
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R43638.D	1	04/24/15	KD	04/22/15	OP42781	MSR1607
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	280	13	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	560	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	560	16	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	560	91	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	560	70	ug/kg	
95-48-7	2-Methylphenol	ND	560	22	ug/kg	
106-44-5	4-Methylphenol	ND	560	28	ug/kg	
88-75-5	2-Nitrophenol	ND	560	15	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	560	39	ug/kg	
108-95-2	Phenol	ND	280	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	560	14	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	560	14	ug/kg	
83-32-9	Acenaphthene	ND	110	15	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	19.3	110	13	ug/kg	J
56-55-3	Benzo(a)anthracene	93.2	110	14	ug/kg	J
50-32-8	Benzo(a)pyrene	109	110	12	ug/kg	J
205-99-2	Benzo(b)fluoranthene	117	110	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	111	110	11	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	280	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	280	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	280	15	ug/kg	
106-47-8	4-Chloroaniline	ND	560	14	ug/kg	
86-74-8	Carbazole	ND	110	13	ug/kg	
218-01-9	Chrysene	105	110	14	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	280	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	280	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	280	20	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	280	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	280	14	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.55
4

Report of Analysis

Client Sample ID: CR-1 (0-1.5)-042015	
Lab Sample ID: MC38165-19	Date Sampled: 04/20/15
Matrix: SO - Soil	Date Received: 04/21/15
Method: SW846 8270D SW846 3546	Percent Solids: 89.2
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	1,3-Dichlorobenzene	ND	280	16	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	280	15	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	560	37	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	560	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	280	28	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	13	ug/kg	
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	280	29	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	280	8.7	ug/kg	
84-66-2	Diethyl phthalate	ND	280	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	280	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	31.3	280	10	ug/kg	J
206-44-0	Fluoranthene	159	110	15	ug/kg	
86-73-7	Fluorene	ND	110	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	280	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	280	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	560	140	ug/kg	
67-72-1	Hexachloroethane	ND	280	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	86.5	110	12	ug/kg	J
78-59-1	Isophorone	ND	280	13	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	560	14	ug/kg	
99-09-2	3-Nitroaniline	ND	560	30	ug/kg	
100-01-6	4-Nitroaniline	ND	560	14	ug/kg	
91-20-3	Naphthalene	ND	110	18	ug/kg	
98-95-3	Nitrobenzene	ND	280	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	280	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	280	17	ug/kg	
85-01-8	Phenanthrene	68.5	110	15	ug/kg	J
129-00-0	Pyrene	142	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	280	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		20-114%
4165-62-2	Phenol-d5	73%		22-117%
118-79-6	2,4,6-Tribromophenol	88%		15-145%
4165-60-0	Nitrobenzene-d5	69%		17-118%
321-60-8	2-Fluorobiphenyl	85%		27-121%
1718-51-0	Terphenyl-d14	95%		39-142%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CR-1 (0-1.5)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-19	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	89.2
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.21 B	0.88	0.11	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Arsenic	5.9	0.88	0.17	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Barium	47.9	4.4	0.057	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.27 B	0.35	0.015	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.29 B	0.35	0.027	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Calcium	106000	2200	3.8	mg/kg	5	04/23/15	04/28/15 VY	SW846 6010C ³	SW846 3050B ⁴
Chromium	13.9	0.88	0.045	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Cobalt	5.5	4.4	0.019	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Copper	19.3	2.2	0.14	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Iron	14000	8.8	1.1	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Lead	66.6	0.88	0.096	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Magnesium	51200	440	3.0	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Manganese	386	1.3	0.057	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.027 B	0.032	0.0078	mg/kg	1	04/23/15	04/23/15 SA	SW846 7471B ¹	SW846 7471B ⁵
Nickel	13.7	3.5	0.049	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Potassium	1350	440	3.6	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Selenium	0.40 B	0.88	0.21	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Silver	0.037 U	0.44	0.037	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Sodium	392 B	440	3.9	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Thallium	0.30 B	0.88	0.19	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Vanadium	14.8	0.88	0.036	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Zinc	50.6	1.8	0.18	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA18077

(2) Instrument QC Batch: MA18086

(3) Instrument QC Batch: MA18090

(4) Prep QC Batch: MP24520

(5) Prep QC Batch: MP24523

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CR-1 (0-1.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-19	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 89.2
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	89.2		%	1	04/24/15	HS	SM 2540G-97 MOD
pH	8.6		su	1	04/22/15	MA	SW846 9045D

RL = Reporting Limit

4.55
4

Report of Analysis

Client Sample ID: CR-1 (0-1.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-19A	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 89.2
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Barium	0.64	D005	100	0.50	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cadmium	0.0019 B	D006	1.0	0.0040	0.00043	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Chromium	0.0097 B	D007	5.0	0.010	0.00048	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cobalt	0.00028 U			0.050	0.00028	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Copper	0.0051 B			0.025	0.0024	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Iron	0.048 B			0.10	0.017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Lead	0.0049 B	D008	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Manganese	0.29			0.015	0.0014	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	04/29/15	04/30/15 SA	SW846 7470A ²
Nickel	0.0065 B			0.040	0.00050	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Selenium	0.0069 B	D010	1.0	0.025	0.0020	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Zinc	0.045 B			0.10	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹

- (1) Instrument QC Batch: MA18096
- (2) Instrument QC Batch: MA18099
- (3) Prep QC Batch: MP24544
- (4) Prep QC Batch: MP24546

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

4.56
4

Report of Analysis

Client Sample ID: CR-1 (0-1.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-19B	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 89.2
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.014		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Barium	0.28 B		0.50	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Beryllium	0.0010 B		0.0040	0.00025	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cadmium	0.00080 B		0.0040	0.00043	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Chromium	0.034		0.010	0.00048	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cobalt	0.0081 B		0.050	0.00028	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Copper	0.042		0.025	0.0024	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Iron	31.3		0.10	0.017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Lead	0.074		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Manganese	0.23		0.015	0.0014	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Mercury	0.000096 U		0.00020	0.000096	mg/l	1	04/28/15	04/29/15 SA	SW846 7470A ¹
Nickel	0.025 B		0.040	0.00050	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Selenium	0.0020 U		0.025	0.0020	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Zinc	0.15		0.10	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²

- (1) Instrument QC Batch: MA18094
- (2) Instrument QC Batch: MA18096
- (3) Prep QC Batch: MP24540
- (4) Prep QC Batch: MP24542

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
 MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

4.57
4

Report of Analysis

Client Sample ID:	CR-2 (0-1.5)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-20	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	92.1
Method:	SW846 8260C		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M72782.D	1	05/04/15	TT	n/a	n/a	MSM2591
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.18 g	5.0 ml
Run #2		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.4	ug/kg	
71-43-2	Benzene	ND	0.52	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.45	ug/kg	
75-25-2	Bromoform	ND	2.1	0.50	ug/kg	
74-83-9	Bromomethane	ND	2.1	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	3.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.43	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.43	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.23	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.41	ug/kg	
67-66-3	Chloroform	ND	2.1	0.53	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.79	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	0.42	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	0.39	ug/kg	
75-35-4	1,1-Dichloroethene	ND	2.1	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	2.1	0.38	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	2.1	0.42	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.46	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.39	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.21	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	0.40	ug/kg	
591-78-6	2-Hexanone	ND	10	0.71	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	0.69	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.2	0.69	ug/kg	
75-09-2	Methylene chloride	2.3	2.1	0.44	ug/kg	
100-42-5	Styrene	ND	5.2	0.33	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.21	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.31	ug/kg	
108-88-3	Toluene	ND	5.2	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.37	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.45	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CR-2 (0-1.5)-042015		Date Sampled: 04/20/15
Lab Sample ID: MC38165-20		Date Received: 04/21/15
Matrix: SO - Soil		Percent Solids: 92.1
Method: SW846 8260C		
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	2.9	2.1	0.32	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.57	ug/kg	
1330-20-7	Xylene (total)	ND	2.1	0.37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		65-141%
2037-26-5	Toluene-D8	94%		65-129%
460-00-4	4-Bromofluorobenzene	90%		63-137%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.58
4

Report of Analysis

Client Sample ID:	CR-2 (0-1.5)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-20	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	92.1
Method:	SW846 8270D SW846 3546		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W21666.D	1	04/27/15	KD	04/22/15	OP42781	MSW926
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	270	12	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	530	14	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	530	15	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	530	87	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1100	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	530	67	ug/kg	
95-48-7	2-Methylphenol	ND	530	21	ug/kg	
106-44-5	4-Methylphenol	ND	530	27	ug/kg	
88-75-5	2-Nitrophenol	ND	530	14	ug/kg	
100-02-7	4-Nitrophenol	ND	1100	100	ug/kg	
87-86-5	Pentachlorophenol	ND	530	38	ug/kg	
108-95-2	Phenol	ND	270	15	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	530	13	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	530	13	ug/kg	
83-32-9	Acenaphthene	ND	110	14	ug/kg	
208-96-8	Acenaphthylene	ND	110	11	ug/kg	
120-12-7	Anthracene	25.7	110	13	ug/kg	J
56-55-3	Benzo(a)anthracene	119	110	14	ug/kg	
50-32-8	Benzo(a)pyrene	132	110	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	135	110	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	106	110	11	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	270	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	270	11	ug/kg	
91-58-7	2-Chloronaphthalene	ND	270	14	ug/kg	
106-47-8	4-Chloroaniline	ND	530	13	ug/kg	
86-74-8	Carbazole	18.5	110	13	ug/kg	J
218-01-9	Chrysene	146	110	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	270	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	270	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	270	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	270	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	270	14	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CR-2 (0-1.5)-042015	Date Sampled:	04/20/15
Lab Sample ID:	MC38165-20	Date Received:	04/21/15
Matrix:	SO - Soil	Percent Solids:	92.1
Method:	SW846 8270D SW846 3546		
Project:	IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	1,3-Dichlorobenzene	ND	270	15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	270	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	530	36	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	530	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	270	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	32.6	110	13	ug/kg	J
132-64-9	Dibenzofuran	ND	110	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	270	28	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	270	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	270	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	270	15	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	43.0	270	9.9	ug/kg	J
206-44-0	Fluoranthene	247	110	15	ug/kg	
86-73-7	Fluorene	ND	110	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	270	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	270	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	530	130	ug/kg	
67-72-1	Hexachloroethane	ND	270	13	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	81.2	110	12	ug/kg	J
78-59-1	Isophorone	ND	270	12	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	14	ug/kg	
88-74-4	2-Nitroaniline	ND	530	13	ug/kg	
99-09-2	3-Nitroaniline	ND	530	29	ug/kg	
100-01-6	4-Nitroaniline	ND	530	13	ug/kg	
91-20-3	Naphthalene	ND	110	17	ug/kg	
98-95-3	Nitrobenzene	ND	270	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	270	15	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	270	16	ug/kg	
85-01-8	Phenanthrene	109	110	14	ug/kg	J
129-00-0	Pyrene	200	110	13	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	270	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		20-114%
4165-62-2	Phenol-d5	73%		22-117%
118-79-6	2,4,6-Tribromophenol	83%		15-145%
4165-60-0	Nitrobenzene-d5	69%		17-118%
321-60-8	2-Fluorobiphenyl	75%		27-121%
1718-51-0	Terphenyl-d14	86%		39-142%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CR-2 (0-1.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-20	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 92.1
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	0.19 B	0.86	0.10	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Arsenic	5.5	0.86	0.16	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Barium	41.2	4.3	0.056	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Beryllium	0.21 B	0.34	0.015	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Cadmium	0.24 B	0.34	0.027	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Calcium	93300	2200	3.7	mg/kg	5	04/23/15	04/28/15 VY	SW846 6010C ³	SW846 3050B ⁴
Chromium	16.7	0.86	0.044	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Cobalt	5.2	4.3	0.019	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Copper	15.7	2.2	0.14	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Iron	10600	8.6	1.1	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Lead	93.7	0.86	0.095	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Magnesium	51500	430	2.9	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Manganese	305	1.3	0.056	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.031 B	0.033	0.0080	mg/kg	1	04/23/15	04/23/15 SA	SW846 7471B ¹	SW846 7471B ⁵
Nickel	12.7	3.4	0.048	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Potassium	832	430	3.5	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Selenium	0.37 B	0.86	0.21	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Silver	0.036 U	0.43	0.036	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Sodium	825	430	3.8	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Thallium	0.19 U	0.86	0.19	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Vanadium	15.2	0.86	0.035	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴
Zinc	47.3	1.7	0.18	mg/kg	1	04/23/15	04/27/15 VY	SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA18077
- (2) Instrument QC Batch: MA18086
- (3) Instrument QC Batch: MA18090
- (4) Prep QC Batch: MP24520
- (5) Prep QC Batch: MP24523

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CR-2 (0-1.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-20	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 92.1
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.1		%	1	04/24/15	HS	SM 2540G-97 MOD
pH	8.4		su	1	04/22/15	MA	SW846 9045D

RL = Reporting Limit

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Report of Analysis

Client Sample ID: CR-2 (0-1.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-20A	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 92.1
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0017 U	D004	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Barium	0.97	D005	100	0.50	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Beryllium	0.00025 U			0.0040	0.00025	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cadmium	0.0021 B	D006	1.0	0.0040	0.00043	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Chromium	0.0013 B	D007	5.0	0.010	0.00048	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Cobalt	0.00028 U			0.050	0.00028	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Copper	0.0041 B			0.025	0.0024	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Iron	0.043 B			0.10	0.017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Lead	0.0027 B	D008	5.0	0.010	0.0017	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Manganese	0.87			0.015	0.0014	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Mercury	0.000096 U	D009	0.20	0.00020	0.000096	mg/l	1	04/29/15	04/30/15 SA	SW846 7470A ²
Nickel	0.0056 B			0.040	0.00050	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Selenium	0.0094 B	D010	1.0	0.025	0.0020	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Silver	0.0010 U	D011	5.0	0.0050	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹
Zinc	0.084 B			0.10	0.0010	mg/l	1	04/29/15	04/29/15 VY	SW846 6010C ¹

- (1) Instrument QC Batch: MA18096
- (2) Instrument QC Batch: MA18099
- (3) Prep QC Batch: MP24544
- (4) Prep QC Batch: MP24546

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: CR-2 (0-1.5)-042015	Date Sampled: 04/20/15
Lab Sample ID: MC38165-20B	Date Received: 04/21/15
Matrix: SO - Soil	Percent Solids: 92.1
Project: IDOT 015, Joliet Road over Flagg Creek, Indian Head Park, IL	

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.052		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Barium	0.73		0.50	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Beryllium	0.0037 B		0.0040	0.00025	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cadmium	0.0026 B		0.0040	0.00043	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Chromium	0.14		0.010	0.00048	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Cobalt	0.041 B		0.050	0.00028	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Copper	0.16		0.025	0.0024	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Iron	128		0.10	0.017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Lead	0.43		0.010	0.0017	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Manganese	1.1		0.015	0.0014	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Mercury	0.00017 B		0.00020	0.000096	mg/l	1	04/28/15	04/29/15 SA	SW846 7470A ¹
Nickel	0.10		0.040	0.00050	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Selenium	0.0037 B		0.025	0.0020	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Silver	0.0010 U		0.0050	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²
Zinc	0.65		0.10	0.0010	mg/l	1	04/28/15	04/29/15 VY	SW846 6010C ²

- (1) Instrument QC Batch: MA18094
- (2) Instrument QC Batch: MA18096
- (3) Prep QC Batch: MP24540
- (4) Prep QC Batch: MP24542

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (not available) B = Indicates a result > = MDL but < RL

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Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job #	
		MC38165	

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)		Matrix Codes																	
Company Name Weston Solutions		Project Name 1DOT 015- Juliet Rd. Over Flag Creek		<p>Requested Analysis (see TEST CODE sheet)</p> <p>Matrix Codes</p> <p>DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LLO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank</p> <p>LAB USE ONLY</p>		<p>LAB USE ONLY</p>																	
Street Address 300 Plaza Circle, Ste 202		Street Juliet Road																					
City, State, Zip Mundelein, IL 60060		City, State, Zip Indian Head Park, IL																					
Project Contact Balasubramanian		Project # 02036 014 05-0082																					
Phone # 224-864-7250		Client PO#																					
Sampler(s) Name(s) U. O'Henry-Skubic		Project Manager S. Balasubramanian																					
Field ID / Point of Collection		Collection						Number of preserved Bottles															
Accutest Sample #	MECH/DOI Viol #	Date	Time					Sampled by	Matrix	# of bottles	HCl	NH ₄	NH ₂	HNO ₃	H ₂ SO ₄	NONE	DI Water	MEQ	ENCORE	Bioassay			
-1	VL-2(0-1.5)-042015	4-20-15	0810					URS	SO	3													
-2	VL-1(0-1.5)-042015		0818							3													
-3	FC-2(0-4)-042015		0840							3													
-4	FC-2(0-4)-042015D		0840							3													
-5	FC-2(4-9)-042015		0845			3																	
-6	FC-1(0-4)-042015		0900			4																	
-7	FC-1(4-9)-042015		0915			4																	
-8	RD-2(0-3)-042015		0930			3																	
-9	RD-1(0-3)-042015		0945			3																	
-10	ROW-1(0-2.5)-042015		0955			3																	
-11	ROW-2(0-2.5)-042015		1010			3																	
-12	ROW-2(0-2.5)-042015D	4-20-15	1010	URS	SO	3																	

Handwritten notes in table: YDCs, SVOCS, TOTAL METALS, TAPERS/CP METALS, PH, PESTICIDES

Turnaround Time (Business days)		Approved By (Accutest PM): / Date:	
<input checked="" type="checkbox"/> Std. 10 Business Days			
<input type="checkbox"/> Std. 5 Business Days (By Contract only)			
<input type="checkbox"/> 5 Day RUSH			
<input type="checkbox"/> 3 Day EMERGENCY			
<input type="checkbox"/> 2 Day EMERGENCY			
<input type="checkbox"/> 1 Day EMERGENCY			

Emergency & Rush TIA data available VIA Lablink

<input type="checkbox"/> Commercial "A" (Level 1)	<input type="checkbox"/> NYASP Category A
<input type="checkbox"/> Commercial "B" (Level 2)	<input type="checkbox"/> NYASP Category B
<input type="checkbox"/> FULLT1 (Level 3+4)	<input type="checkbox"/> State Forms
<input type="checkbox"/> CT RCP	<input type="checkbox"/> EDD Format
<input type="checkbox"/> MA MCP	<input type="checkbox"/> Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1 M. O'Henry-Skubic	4/20/15 13:10	1 [Signature]	4/20/15 17:00	2 [Signature]	4/20/15 17:00	2 FX	
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
3 FX	4/20/15	3 [Signature]		4		4	
Relinquished by:	Date Time:	Received By:	Date Time:	Custody Seal #	Preserved where applicable	On Ice	Cooler Temp.
5		5			<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	<input type="checkbox"/>	20.9 2.0

5.1
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FEI-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # MC38165

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet)	Matrix Codes																																												
Company Name Weston Solutions	Project Name IDOT 015-Joliet Road Over Flagg Creek	<table border="1"> <tr><td>VOCs</td><td>X</td></tr> <tr><td>SVOCs</td><td>X</td></tr> <tr><td>DATA Metals</td><td>X</td></tr> <tr><td>TRAP/SRP Metals</td><td>X</td></tr> <tr><td>pH</td><td>X</td></tr> <tr><td>Resuspended</td><td>X</td></tr> </table>	VOCs	X	SVOCs	X	DATA Metals	X	TRAP/SRP Metals	X	pH	X	Resuspended	X	<table border="1"> <tr><td>DW - Drinking Water</td><td></td></tr> <tr><td>GW - Ground Water</td><td></td></tr> <tr><td>VW - Vialer</td><td></td></tr> <tr><td>SW - Surface Water</td><td></td></tr> <tr><td>SO - Soil</td><td></td></tr> <tr><td>SL - Sludge</td><td></td></tr> <tr><td>SED - Sediment</td><td></td></tr> <tr><td>OI - Oil</td><td></td></tr> <tr><td>LIO - Other Liquid</td><td></td></tr> <tr><td>AIR - Air</td><td></td></tr> <tr><td>SOL - Other Solid</td><td></td></tr> <tr><td>WP - Wipe</td><td></td></tr> <tr><td>FB-Field Blank</td><td></td></tr> <tr><td>EB- Equipment Blank</td><td></td></tr> <tr><td>RB- Rinse Blank</td><td></td></tr> <tr><td>TB-Trip Blank</td><td></td></tr> </table>	DW - Drinking Water		GW - Ground Water		VW - Vialer		SW - Surface Water		SO - Soil		SL - Sludge		SED - Sediment		OI - Oil		LIO - Other Liquid		AIR - Air		SOL - Other Solid		WP - Wipe		FB-Field Blank		EB- Equipment Blank		RB- Rinse Blank		TB-Trip Blank	
VOCs	X																																														
SVOCs	X																																														
DATA Metals	X																																														
TRAP/SRP Metals	X																																														
pH	X																																														
Resuspended	X																																														
DW - Drinking Water																																															
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SO - Soil																																															
SL - Sludge																																															
SED - Sediment																																															
OI - Oil																																															
LIO - Other Liquid																																															
AIR - Air																																															
SOL - Other Solid																																															
WP - Wipe																																															
FB-Field Blank																																															
EB- Equipment Blank																																															
RB- Rinse Blank																																															
TB-Trip Blank																																															
Street Address 300 Plaza Circle, Ste 202	Street Joliet Road																																														
City State Zip Monroeville, IL 60000	City Joliet Road																																														
Project Contact S. Babus, Kumar E-mail: sbabus@westonsolutions.com Phone #: 224-864-7250 Fax #: 864-7234	Project # 02056.04-015.0030																																														
Sampler(s) Name(s) U. Doheny-Skubic Phone #: 224-864-7234	Client PO# 02056.04-015.0030																																														

Accutest Sample #	Field ID / Point of Collection	MEQ/NDI Val #	Collection		Sampled by	Matrix	# of bottles	Number of preserved Bottles										LAB USE ONLY						
			Date	Time				HCl	NaOH	HNO3	H2SO4	NONE	DI Water	ENCORE	MEOH	Residual								
13	TQ-1(0-25)-042015	---	4-20-15	1030	MS		3												X	X	X	X	X	
14	TQ-2(0-25)-042015	---		1045			3																	
15	FC-3(0-4)-042015	---		1055			4																	
16	FC-3(0-4)-042015	---		1100			4																	
17	FC-4(0-4)-042015	---		1115			4																	
18	FC-4(4-9)-042015	---		1125			4																	
19	CR-1(0-1.5)-042015	---		1140			3																	
20	CR-2(0-1.5)-042015	---	4-20-15	1155	MS		3													X	X	X	X	X
	* LAB ITEM *																							

Turnaround Time (Business days)	Approved By (Accutest PMI) / Date:	Data Deliverable Information	Comments / Special Instructions
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary	

Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler: <i>[Signature]</i>	Date Time: 4/20/15 1520	Received By: <i>[Signature]</i>	Date Time: 4/20/15 1700
Relinquished by Sampler: <i>[Signature]</i>	Date Time: 4/21/15	Received By: <i>[Signature]</i>	Date Time: 4/21/15
Relinquished by:	Date Time:	Received By:	Date Time:

Custody Seal #	<input type="checkbox"/> Intact	Preserved where applicable	<input type="checkbox"/>	On Ice	<input type="checkbox"/>	Cooler Temp.
	<input type="checkbox"/> Not intact					

5.1
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MC38165: Chain of Custody

Page 2 of 3