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 372: 1st Avenue at Roosevelt Road Office Phone Number, if available:

Physical Site Location (address, including number and street):
1200 S. 1st Avenue (ISGS SITE NO. 2690V-2)

City: Unincorp. Proviso Township State: IL Zip Code:

County: Cook Township: unincorporated Proviso

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

Latitude: 41.86432 (Decimal Degrees) Longitude: -87.83412 (-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.): 160

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.

Project Name: FAP 372: 1st Avenue at Roosevelt Road Latitude: 41.86432 Longitude: - 87.83412

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 MM-1 THROUGH MM-8 WERE SAMPLED ADJACENT TO ISGS SITE No. 2690V-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]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-175459-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, 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.

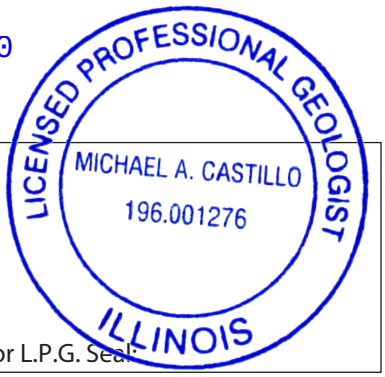
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

27 February 2020
Date:



P.E or L.P.G. Seal

Summary Table of ISGS Site No. 2690V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	MM-1	MM-1	MM-2	MM-3	MM-4	MM-5	Soil Reference Concentrations[A]
Sample Date	12/19/2019	12/19/2019	12/19/2019	12/19/2019	12/19/2019	12/19/2019	
Field Sample ID	MM-1(0-5)-121919D	MM-1(0-5)-121919	MM-2(0-5)-121919	MM-3(0-5)-121919	MM-4(0-5)-121919	MM-5(0-5)-121919	
Lab Sample ID	500-175459-3	500-175459-2	500-175459-1	500-175459-4	500-175459-5	500-175459-6	
ISGS Site Number	2690V-2	2690V-2	2690V-2	2690V-2	2690V-2	2690V-2	
Parameters							
Laboratory pH (s.u.)	8.3	8.3	8.6	8.3	8.2	7.9	<6.25, >9.0
VOCs (mg/kg)							
Acetone	ND	ND	ND	0.023	0.0093 J	0.053	25
Carbon disulfide	ND	ND	ND	ND	ND	ND	9
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	---
Toluene	ND	ND	ND	0.00039 J	ND	0.00045 J	12
SVOCs (mg/kg)							
2-Methylnaphthalene	ND	ND	0.014 J	ND	ND	ND	---
Acenaphthene	ND	ND	ND	ND	ND	ND	570
Anthracene	0.013 J	0.0076 J	0.015 J	0.012 J	ND	ND	12000
Benzo(a)anthracene	0.049	0.065	0.086	0.086	ND	0.024 J	0.9 / 1.1 / 1.8
Benzo(a)pyrene	0.064	0.083	0.1	0.12	ND	0.025 J	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	0.1	0.13	0.16	0.19	ND	0.043	0.9 / 1.5 / 2.1
Benzo(g,h,i)perylene	0.043	0.062	0.054 J	0.077	ND	0.017 J	---
Benzo(k)fluoranthene	0.03 J	0.043	0.051	0.065	ND	0.014 J	9
Chrysene	0.061	0.089	0.12	0.12	ND	0.035 J	88
Dibenzo(a,h)anthracene	ND	0.016 J	0.013 J	ND	ND	ND	0.09 / 0.2 / 0.42
Fluoranthene	0.09	0.11	0.21	0.17	ND	0.041	3100
Fluorene	ND	ND	ND	ND	ND	ND	560
Indeno(1,2,3-cd)pyrene	0.033 J	0.047	0.045 J	0.063	ND	ND	170
Naphthalene, SVOC	ND	ND	0.008 J	ND	ND	ND	1.8
Phenanthrene	0.048	0.038 J	0.1	0.072	0.01 J	0.019 J	---
Pyrene	0.081	0.096	0.18	0.15	0.0098 J	0.041	2300
Total Metals (mg/kg)							
Antimony, Total	0.25 J	0.34 J	ND	ND	ND	0.31 J	5
Arsenic, Total	7.1	7.6	6.3	6.6	7.7	8.1	11.3 / 13
Barium, Total	64	60	55	45	58	53	1500
Beryllium, Total	0.78	0.81	0.74	0.75	0.82	0.72	22
Cadmium, Total	0.43	0.5	0.17	0.18	0.2	0.25	5.2
Calcium, Total	35000 B	48000 B	51000 B	53000 B	27000 B	51000 B	---
Chromium, Total	21	20	20	20	21	19	21
Cobalt, Total	12	15	13	12	12	13	20
Copper, Total	36	30	22	25	25	25	2900
Iron, Total	20000 B	21000 B	19000 B	19000 B	21000 B	23000 B	15000 / 15900
Lead, Total	86 J	42 J	20 J	16	16	20	107
Magnesium, Total	22000	22000	23000	21000	15000	21000	325000
Manganese, Total	310 B	330 B	300 B	330 B	330 B	390 B	630 / 636
Mercury, Total	0.038	0.026	0.039	0.025	0.026	0.032	0.89
Nickel, Total	31	41	32	32	35	31	100
Potassium, Total	3400	3600	3000	3600	3300	3200	---
Selenium, Total	0.64	0.55 J	0.41 J	0.41 J	ND	0.48 J	1.3
Silver, Total	2.3	2.3	2.4	2.4	2.8	2.3	4.4
Sodium, Total	370	360	520	250	130	390	---
Thallium, Total	0.74	0.98	0.9	0.45 J	0.89	0.74	2.6
Vanadium, Total	27	27	24	26	28	25	550
Zinc, Total	100	81	62	59	62	63	5100
TCLP Metals (mg/l)							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.39 J	0.39 J	0.34 J	0.32 J	0.33 J	0.34 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	ND	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	ND	ND	ND	0.01 J	ND	0.12	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	ND	ND	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	ND	ND	ND	5
SPLP Metals (mg/l)							
Arsenic, SPLP	0.051	0.065	0.049 J	0.055	ND	ND	0.05
Barium, SPLP	0.51	0.7	0.51	0.52	0.16 J	0.14 J	2
Beryllium, SPLP	0.0064	0.0087	0.0071	0.0069	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.16	0.22	0.18	0.17	0.044	0.042	0.1
Cobalt, SPLP	0.035	0.047	0.042	0.038	ND	ND	1
Copper, SPLP	0.15	0.19	0.16	0.18	0.036	0.029	0.65
Iron, SPLP	120	120	180	150	29	26	5
Lead, SPLP	0.14 J	0.21 J	0.14 J	0.15	0.022	0.021	0.0075
Manganese, SPLP	0.5	0.69	0.57	0.55	0.1	0.11	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.13	0.16	0.15	0.15	0.034	0.028	0.1
Selenium, SPLP	ND	ND	0.05 J	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.49 J	0.62	0.44 J	0.43 J	0.12 J	0.073 J	5

Summary Table of ISGS Site No. 2690V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	MM-6	MM-6	MM-6	MM-6	MM-7	MM-7	Soil Reference Concentrations[A]
Sample Date	12/19/2019	12/19/2019	12/19/2019	12/19/2019	12/19/2019	12/19/2019	
Field Sample ID	MM-6(0-5)-121919	MM-6(5-10)-121919	MM-6(10-15)-121919	MM-6(15-22)-121919	MM-7(0-5)-121919	MM-7(5-10)-121919	
Lab Sample ID	500-175459-11	500-175459-12	500-175459-13	500-175459-14	500-175459-7	500-175459-8	
ISGS Site Number	2690V-2	2690V-2	2690V-2	2690V-2	2690V-2	2690V-2	
Parameters							
Laboratory pH (s.u.)	7.7	7.6	7.7	7.7	7.4	7.8	<6.25, >9.0
VOCs (mg/kg)							
Acetone	ND	0.043	0.032	0.03	0.012 J	0.014 J	25
Carbon disulfide	ND	ND	ND	ND	ND	ND	9
Methyl ethyl ketone	ND	ND	ND	ND	ND	ND	---
Toluene	ND	ND	ND	ND	ND	ND	12
SVOCs (mg/kg)							
2-Methylnaphthalene	0.017 J	ND	ND	0.14	ND	ND	---
Acenaphthene	ND	ND	ND	ND	ND	ND	570
Anthracene	ND	ND	0.0084 J	ND	ND	ND	12000
Benzo(a)anthracene	0.054	0.035 J	0.032 J	ND	0.015 J	ND	0.9 / 1.1 / 1.8
Benzo(a)pyrene	0.081	0.039	0.031 J	ND	0.016 J	ND	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	0.12	0.059	0.053	0.01 J	0.028 J	ND	0.9 / 1.5 / 2.1
Benzo(g,h,i)perylene	0.042	0.031 J	0.026 J	ND	ND	ND	---
Benzo(k)fluoranthene	0.046	0.016 J	0.014 J	ND	ND	ND	9
Chrysene	0.081	0.045	0.048	0.028 J	0.021 J	ND	88
Dibenzo(a,h)anthracene	0.014 J	ND	ND	ND	ND	ND	0.09 / 0.2 / 0.42
Fluoranthene	0.11	0.064	0.12	0.0088 J	0.025 J	ND	3100
Fluorene	ND	ND	ND	0.0089 J	ND	ND	560
Indeno(1,2,3-cd)pyrene	0.036 J	0.022 J	0.016 J	ND	ND	ND	170
Naphthalene, SVOC	0.0077 J	ND	ND	0.022 J	ND	ND	1.8
Phenanthrene	0.066	0.026 J	0.062	0.091	0.014 J	ND	---
Pyrene	0.11	0.067	0.078	0.023 J	0.025 J	ND	2300
Total Metals (mg/kg)							
Antimony, Total	ND	ND	0.62 J	ND	ND	ND	5
Arsenic, Total	8.7	6.3	3.7	6.6	6.1	5.7	11.3 / 13
Barium, Total	320	360	1300	41	81	36	1500
Beryllium, Total	0.88	0.83	0.94	0.67	0.87	0.71	22
Cadmium, Total	0.21	0.34	0.36 J	0.15	0.3	0.18	5.2
Calcium, Total	17000 B	60000 B	110000 B	53000 B	5700 B	61000 B	---
Chromium, Total	27	32	40	17	21	20	21
Cobalt, Total	13	14	6.3	12	9.1	10	20
Copper, Total	40	25	19	20	24	22	2900
Iron, Total	22000 B	19000 B	14000 B	18000 B	19000 B	19000 B	15000 / 15900
Lead, Total	28	30	13	12	56	12	107
Magnesium, Total	12000	22000	64000	23000	4900	24000	325000
Manganese, Total	250 B	510 B	170 B	310 B	190 B	270 B	630 / 636
Mercury, Total	0.027	0.034	0.025	0.021	0.025	0.02	0.89
Nickel, Total	38	37	19	31	27	30	100
Potassium, Total	2100	2900	2000	3100	2500	3400	---
Selenium, Total	0.56	0.66	0.53 J	ND	0.5 J	0.47 J	1.3
Silver, Total	1.9	2.4	2.1	1.7	2.7	2.2	4.4
Sodium, Total	570	580	2100	210	98	210	---
Thallium, Total	0.99	0.39 J	0.48 J	0.59	1.1	0.78	2.6
Vanadium, Total	21	26	25	20	29	24	550
Zinc, Total	68	63	41	54	74	55	5100
TCLP Metals (mg/l)							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.54	0.55	0.6	0.74	0.29 J	0.3 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	0.018 J	0.018 J	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.053	ND	1.4	1.7	0.037	0.64	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	0.035	0.054	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	0.49 J	ND	ND	ND	0.39 J	ND	5
SPLP Metals (mg/l)							
Arsenic, SPLP	0.018 J	0.016 J	ND	ND	ND	ND	0.05
Barium, SPLP	0.29 J	0.23 J	ND	ND	ND	0.053 J	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.077	0.061	ND	ND	ND	0.013 J	0.1
Cobalt, SPLP	0.016 J	0.013 J	ND	ND	ND	ND	1
Copper, SPLP	0.067	0.056	ND	ND	ND	ND	0.65
Iron, SPLP	57	50	1.4	1	2.7	7.2	5
Lead, SPLP	0.037	0.042	ND	ND	ND	ND	0.0075
Manganese, SPLP	0.25	0.19	0.023 J	0.027	0.011 J	0.03	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.058	0.049	ND	ND	ND	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.15 J	0.21 J	0.12 J	ND	0.15 J	0.039 J	5

Summary Table of ISGS Site No. 2690V-2
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	MM-7	MM-7	MM-8	MM-8	Soil Reference Concentrations[A]
Sample Date	12/19/2019	12/19/2019	12/19/2019	12/19/2019	
Field Sample ID	MM-7(10-15)-121919	MM-7(15-22)-121919	MM-8(0-5)-121919D	MM-8(0-5)-121919	
Lab Sample ID	500-175459-9	500-175459-10	500-175459-16	500-175459-15	
ISGS Site Number	2690V-2	2690V-2	2690V-2	2690V-2	
Parameters					
Laboratory pH (s.u.)	7.9	7.5	8.1	8.3	<6.25, >9.0
VOCs (mg/kg)					
Acetone	0.049	0.014 J	0.015 J	0.027	25
Carbon disulfide	0.00074 J	ND	ND	ND	9
Methyl ethyl ketone	0.0028 J	ND	ND	ND	---
Toluene	ND	ND	ND	ND	12
SVOCs (mg/kg)					
2-Methylnaphthalene	0.038 J	0.04 J	ND	ND	---
Acenaphthene	0.015 J	0.012 J	ND	ND	570
Anthracene	ND	ND	ND	ND	12000
Benzo(a)anthracene	ND	ND	0.026 J	0.029 J	0.9 / 1.1 / 1.8
Benzo(a)pyrene	ND	ND	0.03 J	0.036 J	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	ND	ND	0.051	0.061	0.9 / 1.5 / 2.1
Benzo(g,h,i)perylene	ND	0.022 J	0.026 J	0.026 J	---
Benzo(k)fluoranthene	ND	ND	0.018 J	0.021 J	9
Chrysene	0.037	0.031 J	0.044	0.046	88
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.09 / 0.2 / 0.42
Fluoranthene	ND	ND	0.06	0.058	3100
Fluorene	ND	ND	ND	ND	560
Indeno(1,2,3-cd)pyrene	ND	ND	0.016 J	0.02 J	170
Naphthalene, SVOC	ND	ND	ND	ND	1.8
Phenanthrene	0.061	0.076	0.052	0.036 J	---
Pyrene	0.03 J	0.025 J	0.045	0.055	2300
Total Metals (mg/kg)					
Antimony, Total	ND	ND	ND	ND	5
Arsenic, Total	7.5	7.7	8.9	7.2	11.3 / 13
Barium, Total	58	36	85	62	1500
Beryllium, Total	0.75	0.67	0.73	0.72	22
Cadmium, Total	0.24	0.15	0.22	0.2	5.2
Calcium, Total	25000 B	55000 B	26000 J	47000 J	---
Chromium, Total	22	18	19	19	21
Cobalt, Total	12	12	11	11	20
Copper, Total	28	21	32	25	2900
Iron, Total	19000 B	18000 B	20000 B	19000 B	15000 / 15900
Lead, Total	30	12	35	21	107
Magnesium, Total	16000	24000	17000	20000	325000
Manganese, Total	270 B	300 B	240 B	300 B	630 / 636
Mercury, Total	0.023	0.018	0.029	0.033	0.89
Nickel, Total	31	31	31	31	100
Potassium, Total	2800	3300	2500	3000	---
Selenium, Total	0.52 J	ND	0.38 J	0.54 J	1.3
Silver, Total	1.9	1.8	2.5	2.4	4.4
Sodium, Total	270	300	410	350	---
Thallium, Total	0.86	0.67	0.9	0.83	2.6
Vanadium, Total	25	21	26	24	550
Zinc, Total	64	51	71	58	5100
TCLP Metals (mg/l)					
Arsenic, TCLP	ND	ND	ND	ND	0.05
Barium, TCLP	0.31 J	0.62	0.33 J	0.3 J	2
Beryllium, TCLP	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	0.1
Cobalt, TCLP	0.026	0.016 J	ND	ND	1
Copper, TCLP	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.2	1.7	0.1 J	0.2 J	0.15
Mercury, TCLP	ND	ND	ND	ND	0.002
Nickel, TCLP	0.069	0.05	ND	ND	0.1
Selenium, TCLP	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	ND	5
SPLP Metals (mg/l)					
Arsenic, SPLP	ND	ND	0.038 J	0.027 J	0.05
Barium, SPLP	0.053 J	0.065 J	0.34 J	0.31 J	2
Beryllium, SPLP	ND	ND	0.0042	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	0.005
Chromium, SPLP	0.012 J	ND	0.11	0.11	0.1
Cobalt, SPLP	ND	ND	0.028	0.023 J	1
Copper, SPLP	ND	ND	0.12	0.11	0.65
Iron, SPLP	3.5	2.7	110	86	5
Lead, SPLP	ND	ND	0.086	0.066	0.0075
Manganese, SPLP	0.036	0.044	0.36	0.3	0.15
Mercury, SPLP	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	ND	0.1	0.087	0.1
Selenium, SPLP	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	0.05
Zinc, SPLP	0.063 J	ND	0.31 J	0.31 J	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

ND - Constituent not detected above the reporting limit.

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-175459-1
Client Project/Site: IDOT - Forest Park - WO 071

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

Attn: Mr. Andris Slesers

Authorized for release by:
1/8/2020 4:38:38 PM

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

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-2(0-5)-121919
Date Collected: 12/19/19 08:55
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-1
Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0083	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Bromoform	<0.0019		0.0019	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Carbon disulfide	<0.0048		0.0048	0.00099	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Chloromethane	<0.0048		0.0048	0.0019	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,1-Dichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Methyl Ethyl Ketone	<0.0048		0.0048	0.0021	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
methyl isobutyl ketone	<0.0048		0.0048	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00082	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*12/20/19 19:04*	*12/27/19 10:15*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/20/19 19:04*	*12/27/19 10:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*12/20/19 19:04*	*12/27/19 10:15*	*1*
Toluene-d8 (Surr)	*85*		*75 - 124*	*12/20/19 19:04*	*12/27/19 10:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1

Client Sample ID: MM-2(0-5)-121919
Date Collected: 12/19/19 08:55
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-1
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2,4-Dinitrophenol	<0.81	F1	0.81	0.71	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2-Methylnaphthalene	**0.014**	**J**	0.081	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
3,3'-Dichlorobenzidine	<0.20	F1	0.20	0.056	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
4,6-Dinitro-2-methylphenol	<0.81	F2	0.81	0.32	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Anthracene	**0.015**	**J**	0.040	0.0067	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Benzo[a]anthracene	**0.086**		0.040	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Benzo[a]pyrene	**0.10**		0.040	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Benzo[b]fluoranthene	**0.16**		0.040	0.0087	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Benzo[g,h,i]perylene	**0.054**	**F1**	0.040	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Benzo[k]fluoranthene	**0.051**		0.040	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Chrysene	**0.12**		0.040	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Dibenz(a,h)anthracene	**0.013**	**J F1**	0.040	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Fluoranthene	**0.21**		0.040	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Hexachlorocyclopentadiene	<0.81	F1	0.81	0.23	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Hexachloroethane	<0.20	F1	0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1

Client Sample ID: MM-2(0-5)-121919
Date Collected: 12/19/19 08:55
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-1
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.045**	**F1**	0.040	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Naphthalene	**0.0080**	**J**	0.040	0.0062	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Phenanthrene	**0.10**		0.040	0.0056	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1
Pyrene	**0.18**		0.040	0.0080	mg/Kg	☼	12/30/19 16:07	12/31/19 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*31 - 143*	*12/30/19 16:07*	*12/31/19 19:21*	*1*
2-Fluorobiphenyl	*77*		*43 - 145*	*12/30/19 16:07*	*12/31/19 19:21*	*1*
2-Fluorophenol	*96*		*31 - 166*	*12/30/19 16:07*	*12/31/19 19:21*	*1*
Nitrobenzene-d5	*74*		*37 - 147*	*12/30/19 16:07*	*12/31/19 19:21*	*1*
Phenol-d5	*77*		*30 - 153*	*12/30/19 16:07*	*12/31/19 19:21*	*1*
Terphenyl-d14	*99*		*42 - 157*	*12/30/19 16:07*	*12/31/19 19:21*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:05	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 03:36	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:05	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:05	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:05	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:05	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:05	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/30/19 19:05	1
Manganese	<0.025		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 03:36	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:05	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:05	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:05	1
Zinc	**0.020**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.049**	**J**	0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:01	1
Barium	**0.51**		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:01	1
Beryllium	**0.0071**		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:01	1
Chromium	**0.18**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:01	1
Cobalt	**0.042**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:01	1
Copper	**0.16**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:01	1
Iron	**180**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 09:26	1
Lead	**0.14**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:01	1
Manganese	**0.57**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:01	1
Nickel	**0.15**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:01	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:01	1

Client Sample ID: MM-2(0-5)-121919
Date Collected: 12/19/19 08:55
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-1
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:01	1
Zinc	**0.44**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2	F1	1.2	0.23	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Arsenic	**6.3**		0.60	0.21	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Barium	**55**		0.60	0.069	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Beryllium	**0.74**		0.24	0.056	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Cadmium	**0.17**		0.12	0.022	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Calcium	**51000**	**B**	120	20	mg/Kg	☼	12/23/19 08:38	12/24/19 12:59	10
Chromium	**20**		0.60	0.30	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Cobalt	**13**		0.30	0.079	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Copper	**22**		0.60	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Iron	**19000**	**B**	12	6.2	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Lead	**20**	**F1**	0.30	0.14	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Magnesium	**23000**		6.0	3.0	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Manganese	**300**	**B**	0.60	0.087	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Nickel	**32**		0.60	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Potassium	**3000**		30	11	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Selenium	**0.41**	**J F1**	0.60	0.35	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Silver	**2.4**		0.30	0.078	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Sodium	**520**		60	8.9	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Thallium	**0.90**		0.60	0.30	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Vanadium	**24**		0.30	0.071	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1
Zinc	**62**		1.2	0.53	mg/Kg	☼	12/23/19 08:38	12/24/19 02:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00050	mg/L		12/30/19 11:30	12/31/19 10:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.019	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**		0.2	0.2	SU			12/26/19 13:12	1

Client Sample ID: MM-1(0-5)-121919

Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-2

Matrix: Solid
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Methyl Ethyl Ketone	<0.0044		0.0044	0.0019	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
methyl isobutyl ketone	<0.0044		0.0044	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*12/20/19 19:04*	*12/27/19 12:26*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*12/20/19 19:04*	*12/27/19 12:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*12/20/19 19:04*	*12/27/19 12:26*	*1*
Toluene-d8 (Surr)	*87*		*75 - 124*	*12/20/19 19:04*	*12/27/19 12:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1

Client Sample ID: MM-1(0-5)-121919
Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-2
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Anthracene	**0.0076**	**J**	0.039	0.0066	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Benzo[a]anthracene	**0.065**		0.039	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Benzo[a]pyrene	**0.083**		0.039	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Benzo[b]fluoranthene	**0.13**		0.039	0.0085	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Benzo[g,h,i]perylene	**0.062**		0.039	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Benzo[k]fluoranthene	**0.043**		0.039	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Chrysene	**0.089**		0.039	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Dibenz(a,h)anthracene	**0.016**	**J**	0.039	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Fluoranthene	**0.11**		0.039	0.0073	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1

Client Sample ID: MM-1(0-5)-121919

Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-2

Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.047**		0.039	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Phenanthrene	**0.038**	**J**	0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1
Pyrene	**0.096**		0.039	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*31 - 143*	*12/30/19 16:07*	*12/31/19 19:47*	*1*
2-Fluorobiphenyl	*94*		*43 - 145*	*12/30/19 16:07*	*12/31/19 19:47*	*1*
2-Fluorophenol	*117*		*31 - 166*	*12/30/19 16:07*	*12/31/19 19:47*	*1*
Nitrobenzene-d5	*83*		*37 - 147*	*12/30/19 16:07*	*12/31/19 19:47*	*1*
Phenol-d5	*112*		*30 - 153*	*12/30/19 16:07*	*12/31/19 19:47*	*1*
Terphenyl-d14	*134*		*42 - 157*	*12/30/19 16:07*	*12/31/19 19:47*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:10	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 03:40	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:10	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:10	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:10	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:10	1
Iron	**0.23**	**J B * ^**	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 11:41	1
Manganese	<0.025		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 03:40	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:10	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:10	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:10	1
Zinc	<0.50	*	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.065**		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:06	1
Barium	**0.70**		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:06	1
Beryllium	**0.0087**		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:06	1
Chromium	**0.22**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:06	1
Cobalt	**0.047**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:06	1
Copper	**0.19**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:06	1
Iron	**120**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 09:30	1
Lead	**0.21**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:06	1
Manganese	**0.69**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:06	1
Nickel	**0.16**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:06	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:06	1

Client Sample ID: MM-1(0-5)-121919

Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-2

Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:06	1
Zinc	**0.62**		0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.34**	**J**	1.1	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Arsenic	**7.6**		0.57	0.20	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Barium	**60**		0.57	0.065	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Beryllium	**0.81**		0.23	0.053	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Cadmium	**0.50**		0.11	0.021	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Calcium	**48000**	**B**	110	19	mg/Kg	☼	12/23/19 08:38	12/24/19 13:27	10
Chromium	**20**		0.57	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Cobalt	**15**		0.29	0.075	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Copper	**30**		0.57	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Iron	**21000**	**B**	11	5.9	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Lead	**42**		0.29	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Magnesium	**22000**		5.7	2.8	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Manganese	**330**	**B**	0.57	0.083	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Nickel	**41**		0.57	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Potassium	**3600**		29	10	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Selenium	**0.55**	**J**	0.57	0.34	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Silver	**2.3**		0.29	0.074	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Sodium	**360**		57	8.4	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Thallium	**0.98**		0.57	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Vanadium	**27**		0.29	0.067	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1
Zinc	**81**		1.1	0.50	mg/Kg	☼	12/23/19 08:38	12/24/19 03:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		12/30/19 11:30	12/31/19 10:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.019	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			12/26/19 13:24	1

Client Sample ID: MM-1(0-5)-121919D
Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-3
Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019		0.019	0.0082	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Methyl Ethyl Ketone	<0.0047		0.0047	0.0021	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
methyl isobutyl ketone	<0.0047		0.0047	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*75 - 131*	*12/20/19 19:04*	*12/27/19 12:52*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*12/20/19 19:04*	*12/27/19 12:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*12/20/19 19:04*	*12/27/19 12:52*	*1*
Toluene-d8 (Surr)	*86*		*75 - 124*	*12/20/19 19:04*	*12/27/19 12:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1

Client Sample ID: MM-1(0-5)-121919D
Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-3
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Anthracene	**0.013**	**J**	0.040	0.0067	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Benzo[a]anthracene	**0.049**		0.040	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Benzo[a]pyrene	**0.064**		0.040	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Benzo[b]fluoranthene	**0.10**		0.040	0.0087	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Benzo[g,h,i]perylene	**0.043**		0.040	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Benzo[k]fluoranthene	**0.030**	**J**	0.040	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Chrysene	**0.061**		0.040	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Fluoranthene	**0.090**		0.040	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1

Client Sample ID: MM-1(0-5)-121919D

Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-3

Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.033**	**J**	0.040	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Phenanthrene	**0.048**		0.040	0.0056	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1
Pyrene	**0.081**		0.040	0.0080	mg/Kg	☼	12/30/19 16:07	12/31/19 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*51*		*31 - 143*	*12/30/19 16:07*	*12/31/19 20:16*	*1*
2-Fluorobiphenyl	*71*		*43 - 145*	*12/30/19 16:07*	*12/31/19 20:16*	*1*
2-Fluorophenol	*94*		*31 - 166*	*12/30/19 16:07*	*12/31/19 20:16*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*12/30/19 16:07*	*12/31/19 20:16*	*1*
Phenol-d5	*88*		*30 - 153*	*12/30/19 16:07*	*12/31/19 20:16*	*1*
Terphenyl-d14	*106*		*42 - 157*	*12/30/19 16:07*	*12/31/19 20:16*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:14	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 03:44	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:14	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:14	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:14	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:14	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 11:45	1
Manganese	<0.025		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 03:44	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:14	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:14	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:14	1
Zinc	**0.24**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.051**		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:10	1
Barium	**0.51**		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:10	1
Beryllium	**0.0064**		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:10	1
Chromium	**0.16**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:10	1
Cobalt	**0.035**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:10	1
Copper	**0.15**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:10	1
Iron	**120**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 09:34	1
Lead	**0.14**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:10	1
Manganese	**0.50**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:10	1
Nickel	**0.13**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:10	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:10	1

Client Sample ID: MM-1(0-5)-121919D

Date Collected: 12/19/19 09:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-3

Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:10	1
Zinc	**0.49**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:10	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.25**	**J**	1.2	0.24	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Arsenic	**7.1**		0.61	0.21	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Barium	**64**		0.61	0.069	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Beryllium	**0.78**		0.24	0.057	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Cadmium	**0.43**		0.12	0.022	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Calcium	**35000**	**B**	12	2.1	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Chromium	**21**		0.61	0.30	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Cobalt	**12**		0.30	0.080	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Copper	**36**		0.61	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Iron	**20000**	**B**	12	6.3	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Lead	**86**		0.30	0.14	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Magnesium	**22000**		6.1	3.0	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Manganese	**310**	**B**	0.61	0.088	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Nickel	**31**		0.61	0.18	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Potassium	**3400**		30	11	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Selenium	**0.64**		0.61	0.36	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Silver	**2.3**		0.30	0.079	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Sodium	**370**		61	9.0	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Thallium	**0.74**		0.61	0.30	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Vanadium	**27**		0.30	0.072	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1
Zinc	**100**		1.2	0.53	mg/Kg	☼	12/23/19 08:38	12/24/19 03:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 09:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		12/30/19 11:30	12/31/19 10:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.019	0.0062	mg/Kg	☼	12/27/19 13:40	12/30/19 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			12/26/19 13:30	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-3(0-5)-121919
Date Collected: 12/19/19 09:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-4
Matrix: Solid
Percent Solids: 82.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.023**		0.015	0.0067	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Carbon disulfide	<0.0038		0.0038	0.00080	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Methyl Ethyl Ketone	<0.0038		0.0038	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
methyl isobutyl ketone	<0.0038		0.0038	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Toluene	**0.00039**	**J**	0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*75 - 131*	*12/20/19 19:04*	*12/27/19 13:17*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*12/20/19 19:04*	*12/27/19 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*12/20/19 19:04*	*12/27/19 13:17*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*12/20/19 19:04*	*12/27/19 13:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-3(0-5)-121919
Date Collected: 12/19/19 09:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-4
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Anthracene	**0.012**	**J**	0.039	0.0066	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Benzo[a]anthracene	**0.086**		0.039	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Benzo[a]pyrene	**0.12**		0.039	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Benzo[b]fluoranthene	**0.19**		0.039	0.0085	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Benzo[g,h,i]perylene	**0.077**		0.039	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Benzo[k]fluoranthene	**0.065**		0.039	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Chrysene	**0.12**		0.039	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Fluoranthene	**0.17**		0.039	0.0073	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1

Client Sample ID: MM-3(0-5)-121919

Date Collected: 12/19/19 09:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-4

Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.063**		0.039	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Phenanthrene	**0.072**		0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1
Pyrene	**0.15**		0.039	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*39*		*31 - 143*	*12/30/19 16:07*	*12/31/19 20:44*	*1*
2-Fluorobiphenyl	*78*		*43 - 145*	*12/30/19 16:07*	*12/31/19 20:44*	*1*
2-Fluorophenol	*97*		*31 - 166*	*12/30/19 16:07*	*12/31/19 20:44*	*1*
Nitrobenzene-d5	*69*		*37 - 147*	*12/30/19 16:07*	*12/31/19 20:44*	*1*
Phenol-d5	*100*		*30 - 153*	*12/30/19 16:07*	*12/31/19 20:44*	*1*
Terphenyl-d14	*132*		*42 - 157*	*12/30/19 16:07*	*12/31/19 20:44*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:18	1
Barium	**0.32**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 03:49	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:18	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:18	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:18	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:18	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:18	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 11:49	1
Manganese	**0.010**	**J**	0.025	0.010	mg/L		12/30/19 06:48	01/01/20 03:49	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:18	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:18	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:18	1
Zinc	**0.029**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.055**		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:14	1
Barium	**0.52**		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:14	1
Beryllium	**0.0069**		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:14	1
Chromium	**0.17**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:14	1
Cobalt	**0.038**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:14	1
Copper	**0.18**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:14	1
Iron	**150**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 09:38	1
Lead	**0.15**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:14	1
Manganese	**0.55**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:14	1
Nickel	**0.15**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:14	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:14	1

Client Sample ID: MM-3(0-5)-121919

Date Collected: 12/19/19 09:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-4

Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:14	1
Zinc	**0.43**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Arsenic	**6.6**		0.57	0.19	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Barium	**45**		0.57	0.065	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Beryllium	**0.75**		0.23	0.053	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Cadmium	**0.18**		0.11	0.020	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Calcium	**53000**	**B**	110	19	mg/Kg	☼	12/23/19 08:38	12/24/19 13:31	10
Chromium	**20**		0.57	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Cobalt	**12**		0.28	0.074	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Copper	**25**		0.57	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Iron	**19000**	**B**	11	5.9	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Lead	**16**		0.28	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Magnesium	**21000**		5.7	2.8	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Manganese	**330**	**B**	0.57	0.082	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Nickel	**32**		0.57	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Potassium	**3600**		28	10	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Selenium	**0.41**	**J**	0.57	0.33	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Silver	**2.4**		0.28	0.073	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Sodium	**250**		57	8.4	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Thallium	**0.45**	**J**	0.57	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Vanadium	**26**		0.28	0.067	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1
Zinc	**59**		1.1	0.50	mg/Kg	☼	12/23/19 08:38	12/24/19 03:35	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00033		0.00033	0.00033	mg/L		12/30/19 11:30	12/31/19 10:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.019	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			12/26/19 13:36	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-4(0-5)-121919
Date Collected: 12/19/19 10:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-5
Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0093	J	0.018	0.0078	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Ethylbenzene	<0.0018		0.0018	0.00086	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Methyl Ethyl Ketone	<0.0045		0.0045	0.0020	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
methyl isobutyl ketone	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00077	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*	*12/20/19 19:04*	*12/27/19 13:42*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*12/20/19 19:04*	*12/27/19 13:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*12/20/19 19:04*	*12/27/19 13:42*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*12/20/19 19:04*	*12/27/19 13:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1

Client Sample ID: MM-4(0-5)-121919
Date Collected: 12/19/19 10:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-5
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Fluoranthene	<0.040		0.040	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1

Client Sample ID: MM-4(0-5)-121919
Date Collected: 12/19/19 10:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-5
Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Phenanthrene	**0.010**	**J**	0.040	0.0056	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1
Pyrene	**0.0098**	**J**	0.040	0.0080	mg/Kg	☼	12/30/19 16:07	12/31/19 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*60*		*31 - 143*	*12/30/19 16:07*	*12/31/19 21:13*	*1*
2-Fluorobiphenyl	*63*		*43 - 145*	*12/30/19 16:07*	*12/31/19 21:13*	*1*
2-Fluorophenol	*83*		*31 - 166*	*12/30/19 16:07*	*12/31/19 21:13*	*1*
Nitrobenzene-d5	*58*		*37 - 147*	*12/30/19 16:07*	*12/31/19 21:13*	*1*
Phenol-d5	*85*		*30 - 153*	*12/30/19 16:07*	*12/31/19 21:13*	*1*
Terphenyl-d14	*117*		*42 - 157*	*12/30/19 16:07*	*12/31/19 21:13*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:23	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:02	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:23	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:23	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:23	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:23	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:23	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/30/19 19:23	1
Manganese	<0.025		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:02	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:23	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:23	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:23	1
Zinc	**0.19**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:18	1
Barium	**0.16**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:18	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:18	1
Chromium	**0.044**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:18	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:18	1
Copper	**0.036**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:18	1
Iron	**29**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 09:42	1
Lead	**0.022**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:18	1
Manganese	**0.10**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:18	1
Nickel	**0.034**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:18	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:18	1

Client Sample ID: MM-4(0-5)-121919

Date Collected: 12/19/19 10:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-5

Matrix: Solid
Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:18	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Arsenic	**7.7**		0.58	0.20	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Barium	**58**		0.58	0.066	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Beryllium	**0.82**		0.23	0.054	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Cadmium	**0.20**		0.12	0.021	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Calcium	**27000**	**B**	12	2.0	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Chromium	**21**		0.58	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Copper	**25**		0.58	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Iron	**21000**	**B**	12	6.1	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Lead	**16**		0.29	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Magnesium	**15000**		5.8	2.9	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Manganese	**330**	**B**	0.58	0.084	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Nickel	**35**		0.58	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Potassium	**3300**		29	10	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Silver	**2.8**		0.29	0.075	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Sodium	**130**		58	8.6	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Thallium	**0.89**		0.58	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Vanadium	**28**		0.29	0.069	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1
Zinc	**62**		1.2	0.51	mg/Kg	☼	12/23/19 08:38	12/24/19 03:39	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.019	0.0064	mg/Kg	☼	12/27/19 13:40	12/30/19 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			12/26/19 13:43	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-5(0-5)-121919
Date Collected: 12/19/19 10:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-6
Matrix: Solid
Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.053**		0.016	0.0071	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Methyl Ethyl Ketone	<0.0041		0.0041	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
methyl isobutyl ketone	<0.0041		0.0041	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Toluene	**0.00045**	**J**	0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*75 - 131*	*12/20/19 19:04*	*12/27/19 14:08*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/20/19 19:04*	*12/27/19 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*12/20/19 19:04*	*12/27/19 14:08*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*12/20/19 19:04*	*12/27/19 14:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1

Client Sample ID: MM-5(0-5)-121919
Date Collected: 12/19/19 10:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Benzo[a]anthracene	**0.024**	**J**	0.038	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Benzo[a]pyrene	**0.025**	**J**	0.038	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Benzo[b]fluoranthene	**0.043**		0.038	0.0084	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Benzo[g,h,i]perylene	**0.017**	**J**	0.038	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Benzo[k]fluoranthene	**0.014**	**J**	0.038	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Chrysene	**0.035**	**J**	0.038	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Fluoranthene	**0.041**		0.038	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1

Client Sample ID: MM-5(0-5)-121919
Date Collected: 12/19/19 10:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-6
Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Phenanthrene	**0.019**	**J**	0.038	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1
Pyrene	**0.041**		0.038	0.0077	mg/Kg	☼	12/30/19 16:07	12/31/19 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*45*		*31 - 143*	*12/30/19 16:07*	*12/31/19 21:42*	*1*
2-Fluorobiphenyl	*70*		*43 - 145*	*12/30/19 16:07*	*12/31/19 21:42*	*1*
2-Fluorophenol	*98*		*31 - 166*	*12/30/19 16:07*	*12/31/19 21:42*	*1*
Nitrobenzene-d5	*65*		*37 - 147*	*12/30/19 16:07*	*12/31/19 21:42*	*1*
Phenol-d5	*94*		*30 - 153*	*12/30/19 16:07*	*12/31/19 21:42*	*1*
Terphenyl-d14	*115*		*42 - 157*	*12/30/19 16:07*	*12/31/19 21:42*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:27	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:07	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:27	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:27	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:27	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:27	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:27	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/30/19 19:27	1
Manganese	**0.12**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:07	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:27	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:27	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:27	1
Zinc	**0.033**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:23	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:23	1
Chromium	**0.042**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:23	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:23	1
Copper	**0.029**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:23	1
Iron	**26**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 09:46	1
Lead	**0.021**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:23	1
Manganese	**0.11**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:23	1
Nickel	**0.028**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:23	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:23	1

Client Sample ID: MM-5(0-5)-121919

Date Collected: 12/19/19 10:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-6

Matrix: Solid
Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:23	1
Zinc	**0.073**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:23	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.31**	**J**	1.2	0.23	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Arsenic	**8.1**		0.58	0.20	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Barium	**53**		0.58	0.066	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Beryllium	**0.72**		0.23	0.054	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Cadmium	**0.25**		0.12	0.021	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Calcium	**51000**	**B**	120	20	mg/Kg	☼	12/23/19 08:38	12/24/19 13:35	10
Chromium	**19**		0.58	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Cobalt	**13**		0.29	0.076	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Copper	**25**		0.58	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Iron	**23000**	**B**	12	6.0	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Lead	**20**		0.29	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Magnesium	**21000**		5.8	2.9	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Manganese	**390**	**B**	0.58	0.084	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Nickel	**31**		0.58	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Potassium	**3200**		29	10	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Selenium	**0.48**	**J**	0.58	0.34	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Silver	**2.3**		0.29	0.075	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Sodium	**390**		58	8.6	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Thallium	**0.74**		0.58	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Vanadium	**25**		0.29	0.068	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1
Zinc	**63**		1.2	0.51	mg/Kg	☼	12/23/19 08:38	12/24/19 03:43	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 09:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.019	0.0062	mg/Kg	☼	12/27/19 13:40	12/30/19 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/26/19 13:49	1

Client Sample ID: MM-7(0-5)-121919

Date Collected: 12/19/19 10:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-7

Matrix: Solid
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.012**	**J**	0.016	0.0070	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Methyl Ethyl Ketone	<0.0040		0.0040	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
methyl isobutyl ketone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*75 - 131*	*12/20/19 19:04*	*12/27/19 14:41*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*12/20/19 19:04*	*12/27/19 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*12/20/19 19:04*	*12/27/19 14:41*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*12/20/19 19:04*	*12/27/19 14:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1

Client Sample ID: MM-7(0-5)-121919

Date Collected: 12/19/19 10:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-7

Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Benzo[a]anthracene	**0.015**	**J**	0.036	0.0049	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Benzo[a]pyrene	**0.016**	**J**	0.036	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Benzo[b]fluoranthene	**0.028**	**J**	0.036	0.0079	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Chrysene	**0.021**	**J**	0.036	0.0099	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Fluoranthene	**0.025**	**J**	0.036	0.0068	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1

Client Sample ID: MM-7(0-5)-121919
Date Collected: 12/19/19 10:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-7
Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Phenanthrene	**0.014**	**J**	0.036	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1
Pyrene	**0.025**	**J**	0.036	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*31 - 143*	*12/30/19 16:07*	*12/31/19 22:10*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*12/30/19 16:07*	*12/31/19 22:10*	*1*
2-Fluorophenol	*105*		*31 - 166*	*12/30/19 16:07*	*12/31/19 22:10*	*1*
Nitrobenzene-d5	*75*		*37 - 147*	*12/30/19 16:07*	*12/31/19 22:10*	*1*
Phenol-d5	*110*		*30 - 153*	*12/30/19 16:07*	*12/31/19 22:10*	*1*
Terphenyl-d14	*159*	*X*	*42 - 157*	*12/30/19 16:07*	*12/31/19 22:10*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:31	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/19 06:48	01/01/20 04:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:31	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:31	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:31	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:31	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/30/19 19:31	1
Manganese	**0.037**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:11	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 09:18	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:31	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:31	1
Zinc	**0.39**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:27	1
Barium	<0.50		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:27	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:27	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:27	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:27	1
Iron	**2.7**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 09:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:27	1
Manganese	**0.011**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:27	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:27	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:27	1

Client Sample ID: MM-7(0-5)-121919

Date Collected: 12/19/19 10:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-7

Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:27	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:27	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Arsenic	**6.1**		0.53	0.18	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Barium	**81**		0.53	0.061	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Beryllium	**0.87**		0.21	0.050	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Cadmium	**0.30**		0.11	0.019	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Calcium	**5700**	**B**	11	1.8	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Chromium	**21**		0.53	0.26	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Cobalt	**9.1**		0.27	0.070	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Copper	**24**		0.53	0.15	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Iron	**19000**	**B**	11	5.5	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Lead	**56**		0.27	0.12	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Magnesium	**4900**		5.3	2.6	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Manganese	**190**	**B**	0.53	0.077	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Nickel	**27**		0.53	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Potassium	**2500**		27	9.4	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Selenium	**0.50**	**J**	0.53	0.31	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Silver	**2.7**		0.27	0.069	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Sodium	**98**		53	7.9	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Thallium	**1.1**		0.53	0.27	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Vanadium	**29**		0.27	0.063	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1
Zinc	**74**		1.1	0.47	mg/Kg	☼	12/23/19 08:38	12/24/19 03:47	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 09:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.016	0.0054	mg/Kg	☼	12/27/19 13:40	12/30/19 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**		0.2	0.2	SU			12/26/19 13:55	1

Client Sample ID: MM-7(5-10)-121919

Date Collected: 12/19/19 10:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-8

Matrix: Solid
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.014**	**J**	0.016	0.0069	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Methyl Ethyl Ketone	<0.0040		0.0040	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
methyl isobutyl ketone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*12/20/19 19:04*	*12/27/19 15:06*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*12/20/19 19:04*	*12/27/19 15:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*12/20/19 19:04*	*12/27/19 15:06*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*12/20/19 19:04*	*12/27/19 15:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
1,3-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1

Client Sample ID: MM-7(5-10)-121919
Date Collected: 12/19/19 10:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-8
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2,4-Dinitrotoluene	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
2-Nitrophenol	<0.38		0.38	0.092	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
3 & 4 Methylphenol	<0.19		0.19	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Acenaphthene	<0.038		0.038	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Benzo[a]anthracene	<0.038		0.038	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Benzo[a]pyrene	<0.038		0.038	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Benzo[b]fluoranthene	<0.038		0.038	0.0084	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Butyl benzyl phthalate	<0.19		0.19	0.074	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Carbazole	<0.19		0.19	0.097	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Chrysene	<0.038		0.038	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Diethyl phthalate	<0.19		0.19	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Dimethyl phthalate	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Fluoranthene	<0.038		0.038	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1

Client Sample ID: MM-7(5-10)-121919

Date Collected: 12/19/19 10:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-8

Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Isophorone	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Naphthalene	<0.038		0.038	0.0060	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Nitrobenzene	<0.038		0.038	0.0097	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Phenanthrene	<0.038		0.038	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1
Pyrene	<0.038		0.038	0.0077	mg/Kg	☼	12/30/19 16:07	12/31/19 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*56*		*31 - 143*	*12/30/19 16:07*	*12/31/19 22:39*	*1*
2-Fluorobiphenyl	*77*		*43 - 145*	*12/30/19 16:07*	*12/31/19 22:39*	*1*
2-Fluorophenol	*96*		*31 - 166*	*12/30/19 16:07*	*12/31/19 22:39*	*1*
Nitrobenzene-d5	*67*		*37 - 147*	*12/30/19 16:07*	*12/31/19 22:39*	*1*
Phenol-d5	*97*		*30 - 153*	*12/30/19 16:07*	*12/31/19 22:39*	*1*
Terphenyl-d14	*147*		*42 - 157*	*12/30/19 16:07*	*12/31/19 22:39*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:36	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:15	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:36	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:36	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:36	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:36	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:36	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:36	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 11:53	1
Manganese	**0.64**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:15	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:36	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:36	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:36	1
Zinc	**0.027**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:31	1
Barium	**0.053**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:31	1
Chromium	**0.013**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:31	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:31	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:31	1
Iron	**7.2**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:03	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:31	1
Manganese	**0.030**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:31	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:31	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:31	1

Client Sample ID: MM-7(5-10)-121919

Date Collected: 12/19/19 10:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-8

Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:31	1
Zinc	**0.039**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:31	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Arsenic	**5.7**		0.55	0.19	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Barium	**36**		0.55	0.063	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Beryllium	**0.71**		0.22	0.052	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Cadmium	**0.18**		0.11	0.020	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Calcium	**61000**	**B**	110	19	mg/Kg	☼	12/23/19 08:38	12/24/19 13:39	10
Chromium	**20**		0.55	0.27	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Cobalt	**10**		0.28	0.073	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Copper	**22**		0.55	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Iron	**19000**	**B**	11	5.8	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Lead	**12**		0.28	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Magnesium	**24000**		5.5	2.8	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Manganese	**270**	**B**	0.55	0.080	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Nickel	**30**		0.55	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Potassium	**3400**		28	9.8	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Selenium	**0.47**	**J**	0.55	0.33	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Silver	**2.2**		0.28	0.072	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Sodium	**210**		55	8.2	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Thallium	**0.78**		0.55	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Vanadium	**24**		0.28	0.065	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1
Zinc	**55**		1.1	0.49	mg/Kg	☼	12/23/19 08:38	12/24/19 03:51	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.020	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.8**		0.2	0.2	SU			12/26/19 14:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-7(10-15)-121919
Date Collected: 12/19/19 10:40
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-9
Matrix: Solid
Percent Solids: 90.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.049**		0.014	0.0060	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Benzene	<0.0014		0.0014	0.00035	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Bromodichloromethane	<0.0014		0.0014	0.00028	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Bromoform	<0.0014		0.0014	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Carbon disulfide	**0.00074**	**J**	0.0035	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Carbon tetrachloride	<0.0014		0.0014	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Chlorobenzene	<0.0014		0.0014	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Chloroethane	<0.0035		0.0035	0.0010	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Chloroform	<0.0014		0.0014	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Chloromethane	<0.0035		0.0035	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Dibromochloromethane	<0.0014		0.0014	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,1-Dichloroethane	<0.0014		0.0014	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,2-Dichloroethane	<0.0035		0.0035	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,1-Dichloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Ethylbenzene	<0.0014		0.0014	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Methylene Chloride	<0.0035		0.0035	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Methyl Ethyl Ketone	**0.0028**	**J**	0.0035	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
methyl isobutyl ketone	<0.0035		0.0035	0.0010	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Styrene	<0.0014		0.0014	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Tetrachloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Toluene	<0.0014		0.0014	0.00035	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Trichloroethene	<0.0014		0.0014	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Vinyl chloride	<0.0014		0.0014	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1
Xylenes, Total	<0.0028		0.0028	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*75 - 131*	*12/20/19 19:04*	*12/27/19 15:31*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*12/20/19 19:04*	*12/27/19 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*12/20/19 19:04*	*12/27/19 15:31*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*12/20/19 19:04*	*12/27/19 15:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1

Client Sample ID: MM-7(10-15)-121919
Lab Sample ID: 500-175459-9

Date Collected: 12/19/19 10:40
Matrix: Solid

Date Received: 12/20/19 12:30
Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2-Methylnaphthalene	**0.038**	**J**	0.073	0.0066	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Acenaphthene	**0.015**	**J**	0.036	0.0065	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Chrysene	**0.037**		0.036	0.0098	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Fluoranthene	<0.036		0.036	0.0067	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1

Client Sample ID: MM-7(10-15)-121919

Date Collected: 12/19/19 10:40
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-9

Matrix: Solid
Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036		0.036	0.0094	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Phenanthrene	**0.061**		0.036	0.0050	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1
Pyrene	**0.030**	**J**	0.036	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*31 - 143*	*12/30/19 16:07*	*12/31/19 23:08*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*12/30/19 16:07*	*12/31/19 23:08*	*1*
2-Fluorophenol	*98*		*31 - 166*	*12/30/19 16:07*	*12/31/19 23:08*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*12/30/19 16:07*	*12/31/19 23:08*	*1*
Phenol-d5	*93*		*30 - 153*	*12/30/19 16:07*	*12/31/19 23:08*	*1*
Terphenyl-d14	*124*		*42 - 157*	*12/30/19 16:07*	*12/31/19 23:08*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:40	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:20	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:40	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:40	1
Cobalt	**0.026**		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:40	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:40	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:40	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 11:58	1
Manganese	**1.2**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:20	1
Nickel	**0.069**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 09:27	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:40	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:40	1
Zinc	**0.24**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:35	1
Barium	**0.053**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:35	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:35	1
Chromium	**0.012**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:35	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:35	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:35	1
Iron	**3.5**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:35	1
Manganese	**0.036**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:35	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:35	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:35	1

Client Sample ID: MM-7(10-15)-121919

Date Collected: 12/19/19 10:40
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-9

Matrix: Solid
Percent Solids: 90.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:35	1
Zinc	**0.063**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:35	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Arsenic	**7.5**		0.54	0.19	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Barium	**58**		0.54	0.062	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Beryllium	**0.75**		0.22	0.051	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Cadmium	**0.24**		0.11	0.020	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Calcium	**25000**	**B**	11	1.8	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Chromium	**22**		0.54	0.27	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Cobalt	**12**		0.27	0.071	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Copper	**28**		0.54	0.15	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Iron	**19000**	**B**	11	5.6	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Lead	**30**		0.27	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Magnesium	**16000**		5.4	2.7	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Manganese	**270**	**B**	0.54	0.079	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Nickel	**31**		0.54	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Potassium	**2800**		27	9.6	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Selenium	**0.52**	**J**	0.54	0.32	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Silver	**1.9**		0.27	0.070	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Sodium	**270**		54	8.0	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Thallium	**0.86**		0.54	0.27	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Vanadium	**25**		0.27	0.064	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1
Zinc	**64**		1.1	0.48	mg/Kg	☼	12/23/19 08:38	12/24/19 04:07	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.017	0.0055	mg/Kg	☼	12/27/19 13:40	12/30/19 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/26/19 14:07	1

Client Sample ID: MM-7(15-22)-121919

Date Collected: 12/19/19 10:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-10

Matrix: Solid
Percent Solids: 86.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.014**	**J**	0.016	0.0069	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Carbon disulfide	<0.0040		0.0040	0.00082	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Methyl Ethyl Ketone	<0.0040		0.0040	0.0018	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
methyl isobutyl ketone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*75 - 131*	*12/20/19 19:04*	*12/27/19 15:57*	*1*
Dibromofluoromethane	*87*		*75 - 126*	*12/20/19 19:04*	*12/27/19 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*12/20/19 19:04*	*12/27/19 15:57*	*1*
Toluene-d8 (Surr)	*94*		*75 - 124*	*12/20/19 19:04*	*12/27/19 15:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1

Client Sample ID: MM-7(15-22)-121919
Date Collected: 12/19/19 10:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-10
Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2-Methylnaphthalene	**0.040**	**J**	0.077	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Acenaphthene	**0.012**	**J**	0.038	0.0068	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Benzo[g,h,i]perylene	**0.022**	**J**	0.038	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Chrysene	**0.031**	**J**	0.038	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Fluoranthene	<0.038		0.038	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Fluorene	<0.038		0.038	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Hexachlorobenzene	<0.077		0.077	0.0088	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1

Client Sample ID: MM-7(15-22)-121919

Date Collected: 12/19/19 10:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-10

Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Phenanthrene	**0.076**		0.038	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1
Pyrene	**0.025**	**J**	0.038	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*47*		*31 - 143*	*12/30/19 16:07*	*12/31/19 23:37*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*12/30/19 16:07*	*12/31/19 23:37*	*1*
2-Fluorophenol	*111*		*31 - 166*	*12/30/19 16:07*	*12/31/19 23:37*	*1*
Nitrobenzene-d5	*74*		*37 - 147*	*12/30/19 16:07*	*12/31/19 23:37*	*1*
Phenol-d5	*102*		*30 - 153*	*12/30/19 16:07*	*12/31/19 23:37*	*1*
Terphenyl-d14	*127*		*42 - 157*	*12/30/19 16:07*	*12/31/19 23:37*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:45	1
Barium	**0.62**		0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:25	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:45	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:45	1
Cobalt	**0.016**	**J**	0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:45	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:45	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 12:10	1
Manganese	**1.7**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:25	1
Nickel	**0.050**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 09:35	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:45	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:45	1
Zinc	<0.50	*	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:48	1
Barium	**0.065**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:48	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:48	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:48	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:48	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:48	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:48	1
Iron	**2.7**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:48	1
Manganese	**0.044**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:48	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:48	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:48	1

Client Sample ID: MM-7(15-22)-121919

Date Collected: 12/19/19 10:50
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-10

Matrix: Solid
Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:48	1
Zinc	<0.50		0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:48	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Arsenic	**7.7**		0.57	0.20	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Barium	**36**		0.57	0.065	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Beryllium	**0.67**		0.23	0.054	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Cadmium	**0.15**		0.11	0.021	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Calcium	**55000**	**B**	110	19	mg/Kg	☼	12/23/19 08:38	12/24/19 13:42	10
Chromium	**18**		0.57	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Cobalt	**12**		0.29	0.075	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Copper	**21**		0.57	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Iron	**18000**	**B**	11	6.0	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Lead	**12**		0.29	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Magnesium	**24000**		5.7	2.8	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Manganese	**300**	**B**	0.57	0.083	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Nickel	**31**		0.57	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Potassium	**3300**		29	10	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Selenium	<0.57		0.57	0.34	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Silver	**1.8**		0.29	0.074	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Sodium	**300**		57	8.5	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Thallium	**0.67**		0.57	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Vanadium	**21**		0.29	0.068	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1
Zinc	**51**		1.1	0.50	mg/Kg	☼	12/23/19 08:38	12/24/19 04:12	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.018	0.0061	mg/Kg	☼	12/27/19 13:40	12/30/19 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.5**		0.2	0.2	SU			12/26/19 14:19	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-6(0-5)-121919
Date Collected: 12/19/19 11:05
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-11
Matrix: Solid
Percent Solids: 83.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0091	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Bromoform	<0.0021		0.0021	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Carbon disulfide	<0.0052		0.0052	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Chlorobenzene	<0.0021		0.0021	0.00077	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Chloromethane	<0.0052		0.0052	0.0021	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,1-Dichloroethene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,2-Dichloropropane	<0.0021		0.0021	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Ethylbenzene	<0.0021		0.0021	0.0010	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Methylene Chloride	<0.0052		0.0052	0.0020	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Methyl Ethyl Ketone	<0.0052		0.0052	0.0023	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
methyl isobutyl ketone	<0.0052		0.0052	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Styrene	<0.0021		0.0021	0.00063	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Tetrachloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Toluene	<0.0021		0.0021	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00092	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1
Xylenes, Total	<0.0042		0.0042	0.00067	mg/Kg	☼	12/20/19 19:04	12/27/19 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*12/20/19 19:04*	*12/27/19 16:22*	*1*
Dibromofluoromethane	*95*		*75 - 126*	*12/20/19 19:04*	*12/27/19 16:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*12/20/19 19:04*	*12/27/19 16:22*	*1*
Toluene-d8 (Surr)	*92*		*75 - 124*	*12/20/19 19:04*	*12/27/19 16:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
1,4-Dichlorobenzene	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1

Client Sample ID: MM-6(0-5)-121919
Date Collected: 12/19/19 11:05
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-11
Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2,4-Dichlorophenol	<0.38		0.38	0.092	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2,6-Dinitrotoluene	<0.19		0.19	0.076	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2-Chloronaphthalene	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2-Chlorophenol	<0.19		0.19	0.066	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2-Methylnaphthalene	**0.017**	**J**	0.078	0.0071	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Anthracene	<0.038		0.038	0.0065	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Benzo[a]anthracene	**0.054**		0.038	0.0052	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Benzo[a]pyrene	**0.081**		0.038	0.0075	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Benzo[b]fluoranthene	**0.12**		0.038	0.0083	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Benzo[g,h,i]perylene	**0.042**		0.038	0.012	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Benzo[k]fluoranthene	**0.046**		0.038	0.011	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Chrysene	**0.081**		0.038	0.011	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Dibenz(a,h)anthracene	**0.014**	**J**	0.038	0.0075	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Di-n-butyl phthalate	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Fluoranthene	**0.11**		0.038	0.0072	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Hexachlorobutadiene	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Hexachloroethane	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1

Client Sample ID: MM-6(0-5)-121919

Date Collected: 12/19/19 11:05
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-11

Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.036**	**J**	0.038	0.010	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Naphthalene	**0.0077**	**J**	0.038	0.0059	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
N-Nitrosodiphenylamine	<0.19		0.19	0.046	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Phenanthrene	**0.066**		0.038	0.0054	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Phenol	<0.19		0.19	0.086	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1
Pyrene	**0.11**		0.038	0.0077	mg/Kg	☼	12/30/19 16:07	01/01/20 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*31 - 143*	*12/30/19 16:07*	*01/01/20 00:05*	*1*
2-Fluorobiphenyl	*96*		*43 - 145*	*12/30/19 16:07*	*01/01/20 00:05*	*1*
2-Fluorophenol	*117*		*31 - 166*	*12/30/19 16:07*	*01/01/20 00:05*	*1*
Nitrobenzene-d5	*87*		*37 - 147*	*12/30/19 16:07*	*01/01/20 00:05*	*1*
Phenol-d5	*110*		*30 - 153*	*12/30/19 16:07*	*01/01/20 00:05*	*1*
Terphenyl-d14	*149*		*42 - 157*	*12/30/19 16:07*	*01/01/20 00:05*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 19:57	1
Barium	**0.54**		0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:29	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 19:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 19:57	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:57	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:57	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:57	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 19:57	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	01/01/20 04:29	1
Manganese	**0.053**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:29	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:57	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 19:57	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 19:57	1
Zinc	**0.49**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.018**	**J**	0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:52	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:52	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:52	1
Chromium	**0.077**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:52	1
Cobalt	**0.016**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:52	1
Copper	**0.067**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:52	1
Iron	**57**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:16	1
Lead	**0.037**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:52	1
Manganese	**0.25**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:52	1
Nickel	**0.058**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:52	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:52	1

Client Sample ID: MM-6(0-5)-121919

Date Collected: 12/19/19 11:05
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-11

Matrix: Solid
Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:52	1
Zinc	**0.15**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:52	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Arsenic	**8.7**		0.55	0.19	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Barium	**320**		0.55	0.063	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Beryllium	**0.88**		0.22	0.051	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Cadmium	**0.21**		0.11	0.020	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Calcium	**17000**	**B**	11	1.9	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Chromium	**27**		0.55	0.27	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Cobalt	**13**		0.27	0.072	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Copper	**40**		0.55	0.15	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Iron	**22000**	**B**	11	5.7	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Lead	**28**		0.27	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Magnesium	**12000**		5.5	2.7	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Manganese	**250**	**B**	0.55	0.080	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Nickel	**38**		0.55	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Potassium	**2100**		27	9.7	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Selenium	**0.56**		0.55	0.32	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Silver	**1.9**		0.27	0.071	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Sodium	**570**		55	8.1	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Thallium	**0.99**		0.55	0.27	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Vanadium	**21**		0.27	0.065	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1
Zinc	**68**		1.1	0.48	mg/Kg	☼	12/23/19 08:38	12/24/19 04:16	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.018	0.0059	mg/Kg	☼	12/27/19 13:40	12/30/19 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**		0.2	0.2	SU			12/26/19 14:25	1

Client Sample ID: MM-6(5-10)-121919
Date Collected: 12/19/19 11:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-12
Matrix: Solid
Percent Solids: 81.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.043		0.015	0.0067	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Carbon disulfide	<0.0039		0.0039	0.00080	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Chloroethane	<0.0039		0.0039	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Chloromethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Ethylbenzene	<0.0015		0.0015	0.00074	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Methyl Ethyl Ketone	<0.0039		0.0039	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
methyl isobutyl ketone	<0.0039		0.0039	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Styrene	<0.0015		0.0015	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*12/20/19 19:04*	*12/27/19 16:47*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/20/19 19:04*	*12/27/19 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 134*	*12/20/19 19:04*	*12/27/19 16:47*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*12/20/19 19:04*	*12/27/19 16:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1

Client Sample ID: MM-6(5-10)-121919
Lab Sample ID: 500-175459-12

Date Collected: 12/19/19 11:15
Matrix: Solid

Date Received: 12/20/19 12:30
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Benzo[a]anthracene	**0.035**	**J**	0.039	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Benzo[a]pyrene	**0.039**		0.039	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Benzo[b]fluoranthene	**0.059**		0.039	0.0085	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Benzo[g,h,i]perylene	**0.031**	**J**	0.039	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Benzo[k]fluoranthene	**0.016**	**J**	0.039	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Chrysene	**0.045**		0.039	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Fluoranthene	**0.064**		0.039	0.0073	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1

Client Sample ID: MM-6(5-10)-121919

Date Collected: 12/19/19 11:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-12

Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.022**	**J**	0.039	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Phenanthrene	**0.026**	**J**	0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1
Pyrene	**0.067**		0.039	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*44*		*31 - 143*	*12/30/19 16:07*	*12/31/19 20:20*	*1*
2-Fluorobiphenyl	*53*		*43 - 145*	*12/30/19 16:07*	*12/31/19 20:20*	*1*
2-Fluorophenol	*47*		*31 - 166*	*12/30/19 16:07*	*12/31/19 20:20*	*1*
Nitrobenzene-d5	*45*		*37 - 147*	*12/30/19 16:07*	*12/31/19 20:20*	*1*
Phenol-d5	*49*		*30 - 153*	*12/30/19 16:07*	*12/31/19 20:20*	*1*
Terphenyl-d14	*77*		*42 - 157*	*12/30/19 16:07*	*12/31/19 20:20*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 20:02	1
Barium	**0.55**		0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:34	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 20:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 20:02	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:02	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:02	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:02	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 20:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 12:15	1
Manganese	<0.025		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:34	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:02	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 20:02	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:02	1
Zinc	**0.032**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.016**	**J**	0.050	0.010	mg/L		12/30/19 06:50	12/30/19 20:57	1
Barium	**0.23**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 20:57	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 20:57	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 20:57	1
Chromium	**0.061**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:57	1
Cobalt	**0.013**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:57	1
Copper	**0.056**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:57	1
Iron	**50**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:20	1
Lead	**0.042**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 20:57	1
Manganese	**0.19**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:57	1
Nickel	**0.049**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:57	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 20:57	1

Client Sample ID: MM-6(5-10)-121919

Date Collected: 12/19/19 11:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-12

Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 20:57	1
Zinc	**0.21**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 20:57	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Arsenic	**6.3**		0.56	0.19	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Barium	**360**		0.56	0.064	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Beryllium	**0.83**		0.23	0.053	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Cadmium	**0.34**		0.11	0.020	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Calcium	**60000**	**B**	110	19	mg/Kg	☼	12/23/19 08:38	12/24/19 13:46	10
Chromium	**32**		0.56	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Cobalt	**14**		0.28	0.074	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Copper	**25**		0.56	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Iron	**19000**	**B**	11	5.9	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Lead	**30**		0.28	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Magnesium	**22000**		5.6	2.8	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Manganese	**510**	**B**	0.56	0.082	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Nickel	**37**		0.56	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Potassium	**2900**		28	10	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Selenium	**0.66**		0.56	0.33	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Silver	**2.4**		0.28	0.073	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Sodium	**580**		56	8.4	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Thallium	**0.39**	**J**	0.56	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Vanadium	**26**		0.28	0.067	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1
Zinc	**63**		1.1	0.50	mg/Kg	☼	12/23/19 08:38	12/24/19 04:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.020	0.0066	mg/Kg	☼	12/27/19 13:40	12/30/19 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**		0.2	0.2	SU			12/26/19 14:31	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MM-6(10-15)-121919
Date Collected: 12/19/19 11:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-13
Matrix: Solid
Percent Solids: 83.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.032		0.017	0.0073	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Methyl Ethyl Ketone	<0.0042		0.0042	0.0019	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
methyl isobutyl ketone	<0.0042		0.0042	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1
Xylenes, Total	<0.0033		0.0033	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*12/20/19 19:04*	*12/27/19 17:13*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*12/20/19 19:04*	*12/27/19 17:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 134*	*12/20/19 19:04*	*12/27/19 17:13*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*12/20/19 19:04*	*12/27/19 17:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1

Client Sample ID: MM-6(10-15)-121919
Date Collected: 12/19/19 11:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-13
Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2-Methylnaphthalene	<0.077		0.077	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Anthracene	**0.0084**	**J**	0.038	0.0064	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Benzo[a]anthracene	**0.032**	**J**	0.038	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Benzo[a]pyrene	**0.031**	**J**	0.038	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Benzo[b]fluoranthene	**0.053**		0.038	0.0083	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Benzo[g,h,i]perylene	**0.026**	**J**	0.038	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Benzo[k]fluoranthene	**0.014**	**J**	0.038	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Carbazole	<0.19		0.19	0.096	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Chrysene	**0.048**		0.038	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Fluoranthene	**0.12**		0.038	0.0071	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1

Client Sample ID: MM-6(10-15)-121919

Date Collected: 12/19/19 11:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-13

Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.016**	**J**	0.038	0.0099	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Phenanthrene	**0.062**		0.038	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1
Pyrene	**0.078**		0.038	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*39*		*31 - 143*	*12/30/19 16:07*	*12/31/19 20:45*	*1*
2-Fluorobiphenyl	*80*		*43 - 145*	*12/30/19 16:07*	*12/31/19 20:45*	*1*
2-Fluorophenol	*73*		*31 - 166*	*12/30/19 16:07*	*12/31/19 20:45*	*1*
Nitrobenzene-d5	*68*		*37 - 147*	*12/30/19 16:07*	*12/31/19 20:45*	*1*
Phenol-d5	*76*		*30 - 153*	*12/30/19 16:07*	*12/31/19 20:45*	*1*
Terphenyl-d14	*89*		*42 - 157*	*12/30/19 16:07*	*12/31/19 20:45*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 20:06	1
Barium	**0.60**		0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:38	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 20:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 20:06	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:06	1
Cobalt	**0.018**	**J**	0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:06	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:06	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 20:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/30/19 20:06	1
Manganese	**1.4**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:38	1
Nickel	**0.035**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 09:40	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 20:06	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:06	1
Zinc	**0.16**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 21:01	1
Barium	<0.50		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 21:01	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 21:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 21:01	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:01	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:01	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:01	1
Iron	**1.4**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 21:01	1
Manganese	**0.023**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:01	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:01	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 21:01	1

Client Sample ID: MM-6(10-15)-121919

Date Collected: 12/19/19 11:30
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-13

Matrix: Solid
Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:01	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 21:01	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.62**	**J**	1.2	0.23	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Arsenic	**3.7**		0.59	0.20	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Barium	**1300**		3.0	0.34	mg/Kg	☼	12/23/19 08:38	12/24/19 13:50	5
Beryllium	**0.94**		0.24	0.055	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Cadmium	**0.36**	**J**	0.59	0.11	mg/Kg	☼	12/23/19 08:38	12/24/19 13:50	5
Calcium	**110000**	**B**	59	10	mg/Kg	☼	12/23/19 08:38	12/24/19 13:50	5
Chromium	**40**		0.59	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Cobalt	**6.3**		1.5	0.39	mg/Kg	☼	12/23/19 08:38	12/24/19 13:50	5
Copper	**19**		0.59	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Iron	**14000**	**B**	12	6.2	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Lead	**13**		0.30	0.14	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Magnesium	**64000**		30	15	mg/Kg	☼	12/23/19 08:38	12/24/19 13:50	5
Manganese	**170**	**B**	0.59	0.086	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Nickel	**19**		0.59	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Potassium	**2000**		30	10	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Selenium	**0.53**	**J**	0.59	0.35	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Silver	**2.1**		0.30	0.076	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Sodium	**2100**		59	8.8	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Thallium	**0.48**	**J**	0.59	0.30	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Vanadium	**25**		0.30	0.070	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1
Zinc	**41**		1.2	0.52	mg/Kg	☼	12/23/19 08:38	12/24/19 04:24	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.019	0.0063	mg/Kg	☼	12/27/19 13:40	12/30/19 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**		0.2	0.2	SU			12/26/19 14:37	1

Client Sample ID: MM-6(15-22)-121919

Date Collected: 12/19/19 11:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-14

Matrix: Solid
Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.030**		0.015	0.0066	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Bromoform	<0.0015		0.0015	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Carbon disulfide	<0.0038		0.0038	0.00079	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Ethylbenzene	<0.0015		0.0015	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Methyl Ethyl Ketone	<0.0038		0.0038	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
methyl isobutyl ketone	<0.0038		0.0038	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Toluene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00067	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Trichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*75 - 131*	*12/20/19 19:04*	*12/27/19 17:38*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*12/20/19 19:04*	*12/27/19 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*12/20/19 19:04*	*12/27/19 17:38*	*1*
Toluene-d8 (Surr)	*93*		*75 - 124*	*12/20/19 19:04*	*12/27/19 17:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1

Client Sample ID: MM-6(15-22)-121919

Date Collected: 12/19/19 11:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-14

Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2-Methylnaphthalene	**0.14**		0.075	0.0069	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Benzo[b]fluoranthene	**0.010**	**J**	0.037	0.0080	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Chrysene	**0.028**	**J**	0.037	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Fluoranthene	**0.0088**	**J**	0.037	0.0069	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Fluorene	**0.0089**	**J**	0.037	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1

Client Sample ID: MM-6(15-22)-121919

Date Collected: 12/19/19 11:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-14

Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0097	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Naphthalene	**0.022**	**J**	0.037	0.0057	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Phenanthrene	**0.091**		0.037	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1
Pyrene	**0.023**	**J**	0.037	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*54*		*31 - 143*	*12/30/19 16:07*	*12/31/19 21:10*	*1*
2-Fluorobiphenyl	*76*		*43 - 145*	*12/30/19 16:07*	*12/31/19 21:10*	*1*
2-Fluorophenol	*86*		*31 - 166*	*12/30/19 16:07*	*12/31/19 21:10*	*1*
Nitrobenzene-d5	*68*		*37 - 147*	*12/30/19 16:07*	*12/31/19 21:10*	*1*
Phenol-d5	*80*		*30 - 153*	*12/30/19 16:07*	*12/31/19 21:10*	*1*
Terphenyl-d14	*95*		*42 - 157*	*12/30/19 16:07*	*12/31/19 21:10*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 20:11	1
Barium	**0.74**		0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:43	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 20:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 20:11	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:11	1
Cobalt	**0.018**	**J**	0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:11	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:11	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 20:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	01/01/20 04:43	1
Manganese	**1.7**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:43	1
Nickel	**0.054**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 09:44	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 20:11	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:11	1
Zinc	<0.50	*	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 21:05	1
Barium	<0.50		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 21:05	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 21:05	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 21:05	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:05	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:05	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:05	1
Iron	**1.0**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 21:05	1
Manganese	**0.027**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:05	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:05	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 21:05	1

Client Sample ID: MM-6(15-22)-121919

Date Collected: 12/19/19 11:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-14

Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:05	1
Zinc	<0.50		0.50	0.020	mg/L		12/30/19 06:50	12/30/19 21:05	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Arsenic	**6.6**		0.58	0.20	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Barium	**41**		0.58	0.066	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Beryllium	**0.67**		0.23	0.054	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Cadmium	**0.15**		0.12	0.021	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Calcium	**53000**	**B**	120	20	mg/Kg	☼	12/23/19 08:38	12/24/19 14:07	10
Chromium	**17**		0.58	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Copper	**20**		0.58	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Iron	**18000**	**B**	12	6.0	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Lead	**12**		0.29	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Magnesium	**23000**		5.8	2.9	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Manganese	**310**	**B**	0.58	0.084	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Nickel	**31**		0.58	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Potassium	**3100**		29	10	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Silver	**1.7**		0.29	0.075	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Sodium	**210**		58	8.6	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Thallium	**0.59**		0.58	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Vanadium	**20**		0.29	0.069	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1
Zinc	**54**		1.2	0.51	mg/Kg	☼	12/23/19 08:38	12/24/19 04:29	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.019	0.0062	mg/Kg	☼	12/27/19 13:40	12/30/19 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**		0.2	0.2	SU			12/26/19 14:43	1

Client Sample ID: MM-8(0-5)-121919

Date Collected: 12/19/19 12:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-15

Matrix: Solid
Percent Solids: 83.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.027**		0.016	0.0069	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Carbon disulfide	<0.0039		0.0039	0.00082	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Methylene Chloride	<0.0039		0.0039	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Methyl Ethyl Ketone	<0.0039		0.0039	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
methyl isobutyl ketone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1
Xylenes, Total	<0.0032		0.0032	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*12/20/19 19:04*	*12/27/19 18:04*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*12/20/19 19:04*	*12/27/19 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*12/20/19 19:04*	*12/27/19 18:04*	*1*
Toluene-d8 (Surr)	*94*		*75 - 124*	*12/20/19 19:04*	*12/27/19 18:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1

Client Sample ID: MM-8(0-5)-121919
Date Collected: 12/19/19 12:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-15
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2-Methylnaphthalene	<0.075		0.075	0.0069	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
4-Chloroaniline	<0.75		0.75	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Benzo[a]anthracene	**0.029**	**J**	0.037	0.0050	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Benzo[a]pyrene	**0.036**	**J**	0.037	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Benzo[b]fluoranthene	**0.061**		0.037	0.0081	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Benzo[g,h,i]perylene	**0.026**	**J**	0.037	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Benzo[k]fluoranthene	**0.021**	**J**	0.037	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Chrysene	**0.046**		0.037	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Fluoranthene	**0.058**		0.037	0.0069	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1

Client Sample ID: MM-8(0-5)-121919
Date Collected: 12/19/19 12:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-15
Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.020**	**J**	0.037	0.0097	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Phenanthrene	**0.036**	**J**	0.037	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1
Pyrene	**0.055**		0.037	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*31 - 143*	*12/30/19 16:07*	*12/31/19 21:36*	*1*
2-Fluorobiphenyl	*74*		*43 - 145*	*12/30/19 16:07*	*12/31/19 21:36*	*1*
2-Fluorophenol	*72*		*31 - 166*	*12/30/19 16:07*	*12/31/19 21:36*	*1*
Nitrobenzene-d5	*61*		*37 - 147*	*12/30/19 16:07*	*12/31/19 21:36*	*1*
Phenol-d5	*72*		*30 - 153*	*12/30/19 16:07*	*12/31/19 21:36*	*1*
Terphenyl-d14	*97*		*42 - 157*	*12/30/19 16:07*	*12/31/19 21:36*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 20:15	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 04:56	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 20:15	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 20:15	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:15	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:15	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:15	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 20:15	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/30/19 20:15	1
Manganese	**0.20**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 04:56	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:15	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 20:15	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:15	1
Zinc	**0.16**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 20:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.027**	**J**	0.050	0.010	mg/L		12/30/19 06:50	12/30/19 21:09	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 21:09	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/30/19 06:50	12/31/19 10:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 21:09	1
Chromium	**0.11**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:09	1
Cobalt	**0.023**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:09	1
Copper	**0.11**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:09	1
Iron	**86**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:32	1
Lead	**0.066**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 21:09	1
Manganese	**0.30**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:09	1
Nickel	**0.087**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:09	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 21:09	1

Client Sample ID: MM-8(0-5)-121919

Date Collected: 12/19/19 12:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-15

Matrix: Solid
Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:09	1
Zinc	**0.31**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 21:09	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Arsenic	**7.2**		0.58	0.20	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Barium	**62**		0.58	0.066	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Beryllium	**0.72**		0.23	0.054	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Cadmium	**0.20**		0.12	0.021	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Calcium	**47000**	**B**	120	19	mg/Kg	☼	12/23/19 08:38	12/24/19 14:11	10
Chromium	**19**		0.58	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Cobalt	**11**		0.29	0.075	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Copper	**25**		0.58	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Iron	**19000**	**B**	12	6.0	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Lead	**21**		0.29	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Magnesium	**20000**		5.8	2.9	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Manganese	**300**	**B**	0.58	0.083	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Nickel	**31**		0.58	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Potassium	**3000**		29	10	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Selenium	**0.54**	**J**	0.58	0.34	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Silver	**2.4**		0.29	0.074	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Sodium	**350**		58	8.5	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Thallium	**0.83**		0.58	0.29	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Vanadium	**24**		0.29	0.068	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1
Zinc	**58**		1.2	0.50	mg/Kg	☼	12/23/19 08:38	12/24/19 04:33	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.019	0.0063	mg/Kg	☼	12/27/19 13:40	12/30/19 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**		0.2	0.2	SU			12/26/19 14:49	1

Client Sample ID: MM-8(0-5)-121919D

Date Collected: 12/19/19 12:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-16

Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.015**	**J**	0.021	0.0089	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Benzene	<0.0021		0.0021	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Chloroform	<0.0021		0.0021	0.00071	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00057	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,1-Dichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Ethylbenzene	<0.0021		0.0021	0.00098	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Methyl Ethyl Ketone	<0.0051		0.0051	0.0023	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
methyl isobutyl ketone	<0.0051		0.0051	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00060	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00088	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Trichloroethene	<0.0021		0.0021	0.00069	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	12/20/19 19:04	12/30/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*75 - 131*	*12/20/19 19:04*	*12/30/19 13:42*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*12/20/19 19:04*	*12/30/19 13:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*12/20/19 19:04*	*12/30/19 13:42*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*12/20/19 19:04*	*12/30/19 13:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1

Client Sample ID: MM-8(0-5)-121919D
Lab Sample ID: 500-175459-16
Date Collected: 12/19/19 12:00
Matrix: Solid
Date Received: 12/20/19 12:30
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2,4-Dichlorophenol	<0.37		0.37	0.090	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Benzo[a]anthracene	**0.026**	**J**	0.037	0.0051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Benzo[a]pyrene	**0.030**	**J**	0.037	0.0073	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Benzo[b]fluoranthene	**0.051**		0.037	0.0081	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Benzo[g,h,i]perylene	**0.026**	**J**	0.037	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Benzo[k]fluoranthene	**0.018**	**J**	0.037	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Chrysene	**0.044**		0.037	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Fluoranthene	**0.060**		0.037	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1

Client Sample ID: MM-8(0-5)-121919D

Date Collected: 12/19/19 12:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-16

Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.016**	**J**	0.037	0.0098	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Phenanthrene	**0.052**		0.037	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1
Pyrene	**0.045**		0.037	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*43*		*31 - 143*	*12/30/19 16:07*	*12/31/19 22:01*	*1*
2-Fluorobiphenyl	*79*		*43 - 145*	*12/30/19 16:07*	*12/31/19 22:01*	*1*
2-Fluorophenol	*72*		*31 - 166*	*12/30/19 16:07*	*12/31/19 22:01*	*1*
Nitrobenzene-d5	*63*		*37 - 147*	*12/30/19 16:07*	*12/31/19 22:01*	*1*
Phenol-d5	*68*		*30 - 153*	*12/30/19 16:07*	*12/31/19 22:01*	*1*
Terphenyl-d14	*96*		*42 - 157*	*12/30/19 16:07*	*12/31/19 22:01*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 20:20	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 05:00	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 20:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 20:20	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:20	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:20	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:20	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 20:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/31/19 12:19	1
Manganese	**0.10**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 05:00	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:20	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 20:20	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:20	1
Zinc	<0.50	*	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.038**	**J**	0.050	0.010	mg/L		12/30/19 06:50	12/30/19 21:14	1
Barium	**0.34**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 21:14	1
Beryllium	**0.0042**		0.0040	0.0040	mg/L		12/30/19 06:50	12/31/19 10:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 21:14	1
Chromium	**0.11**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:14	1
Cobalt	**0.028**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:14	1
Copper	**0.12**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:14	1
Iron	**110**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:36	1
Lead	**0.086**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 21:14	1
Manganese	**0.36**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:14	1
Nickel	**0.10**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:14	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 21:14	1

Client Sample ID: MM-8(0-5)-121919D

Date Collected: 12/19/19 12:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-16

Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:14	1
Zinc	**0.31**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 21:14	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Arsenic	**8.9**		0.55	0.19	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Barium	**85**		0.55	0.063	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Beryllium	**0.73**		0.22	0.052	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Cadmium	**0.22**		0.11	0.020	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Calcium	**26000**	**B**	11	1.9	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Chromium	**19**		0.55	0.27	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Cobalt	**11**		0.28	0.072	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Copper	**32**		0.55	0.15	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Iron	**20000**	**B**	11	5.8	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Lead	**35**		0.28	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Magnesium	**17000**		5.5	2.7	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Manganese	**240**	**B**	0.55	0.080	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Nickel	**31**		0.55	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Potassium	**2500**		28	9.8	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Selenium	**0.38**	**J**	0.55	0.33	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Silver	**2.5**		0.28	0.071	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Sodium	**410**		55	8.2	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Thallium	**0.90**		0.55	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Vanadium	**26**		0.28	0.065	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1
Zinc	**71**		1.1	0.49	mg/Kg	☼	12/23/19 08:38	12/24/19 04:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.018	0.0061	mg/Kg	☼	12/27/19 13:40	12/30/19 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**		0.2	0.2	SU			12/26/19 14:56	1

Definitions/Glossary

Client: Weston Solutions, Inc. Job ID: 500-175459-1
Project/Site: IDOT - Forest Park - WO 071

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Job ID: 500-175459-1
Project/Site: IDOT - Forest Park - WO 071

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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

500-175459 COC

Chain of Custody Record

Lab Job #: 500-175459

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 5.4, 4.6, 5.3, 1.6

Report To (optional)	Bill To (optional)
Contact: Andris Slesers	Contact:
Company: Weston Solutions, Inc.	Company:
Address:	Address:
Address:	Address:
Phone: 773-230-1771	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston Solutions, Inc.	02056. .071
Project Name: wsp IDOT Forest Park/Maywood Area	
Project Location/State: Forest Park/Maywood, IL	Lab Project #
Sampler: M. Taylor O.	Lab PM: Richard Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	PAH	Comments
1		MM-2(0-5)-121919	12/19/19	0855	6	S		x	x	x	x	x	
2		MM-1(0-5)-121919		0915									
3		MM-1(0-5)-121919D		0915									
4		MM-3(0-5)-121919		0950									
5		MM-4(0-5)-121919		1000									
6		MM-5(0-5)-121919		1015									
7		MM-7(0-5)-121919		1025									
8		MM-7(5-10)-121919		1030									
9		MM-7(10-15)-121919		1040									
10		MM-7(15-22)-121919		1050									

Elmhurst
503325

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	12/19/19	1830	[signature]	[signature]	12-20-19	1830
[signature]	Weston	12-20-19	0900	[signature]	TA	12/20/19	930
[signature]	TA	12/20/19	1230	[signature]	TA-CHI	12/20/19	1230

Lab Courier: TD
Shipped:
Hand Delivered:

Matrix Key

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

Client Comments:

Lab Comments:
5.4, 4.6, 5.3, 1.6
4 8qt 4 8qt 4 8qt 4 4qt.

TAL-4124-500 (1209)

1/8/2020

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-175459

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler:

(optional) Report To	(optional) Bill To
Contact: Andvis Sleseys	Contact:
Company: Weston Solutions, Inc.	Company:
Address:	Address:
Address:	Address:
Phone: 772-230-1771	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston Solutions, Inc.	02056. .071
Project Name	
IDOT Forest Park / Maywood Area	
Project Location/State	**Lab Project #**
Forest Park / Maywood, IL	
Sampler	**Lab PM**
Max D. + Taylor O.	Richard Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs	SVOCs	Total metals	TCLP/SPLP metals	pH	Comments
11		MW-6 (0-5)-121919	12/19/19	1105	6	S		x	x	x	x	x	
12		MW-6 (5-10)-121919		1115									
13		MW-6 (10-15)-121919		1130									
14		MW-6 (15-22)-121919		1135									
15		MW-8 (0-5)-121919		1200									
16		MW-8 (0-5)-121919D		1200									
17		MF-3 (0-5)-121919		1235									
18		MF-2 (0-5)-121919		1240									
19		MF-1 (0-5)-121919		1255									
20		MF-1 (5-10)-121919		1310									

Elmhurst

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	12/19/19	1830	T. Wally	Weston	12-19-19	1830
T. Wally	Weston	12-20-19	0900		TA	12/20/19	0900
	TA	12/20/19	1230	Alan Scott	TA-CHI	12/20/19	1230

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

1/8/2020

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 372: 1st Avenue at Roosevelt Road Office Phone Number, if available:

Physical Site Location (address, including number and street):
201 W Roosevelt Road (ISGS SITE NO. 2690V-5)

City: Maywood 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: 41.86455 (Decimal Degrees) Longitude: -87.83519 (-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.): 15

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 FF-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2690V-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]:

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-175471-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, 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.

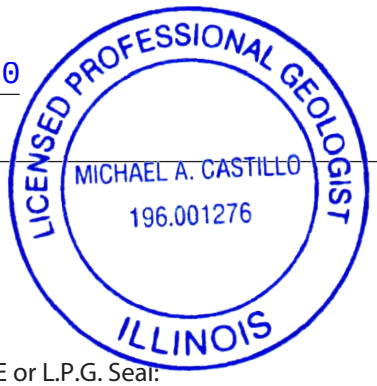
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

27 February 2020
Date:



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

Summary Table of ISGS Site No. 2690V-5
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	FF-1	Soil Reference Concentrations[A]
Sample Date	12/20/2019	
Field Sample ID	FF-1(0-5)-122019	
Lab Sample ID	500-175471-8	
ISGS Site Number	2690V-5	
Parameters		
Laboratory pH (s.u.)	8.6	<6.25, >9.0
VOCs (mg/kg)	No Detections	
SVOCs (mg/kg)	No Detections	
Total Metals (mg/kg)		
Arsenic, Total	5.4	11.3 / 13
Barium, Total	90	1500
Beryllium, Total	0.84	22
Calcium, Total	4900	---
Chromium, Total	18	21
Cobalt, Total	6.7	20
Copper, Total	23	2900
Iron, Total	19000	15000 / 15900
Lead, Total	23	107
Magnesium, Total	3700	325000
Manganese, Total	110	630 / 636
Mercury, Total	0.035	0.89
Nickel, Total	22	100
Potassium, Total	2400	---
Silver, Total	3.1	4.4
Sodium, Total	610	---
Thallium, Total	2.2	2.6
Vanadium, Total	24	550
Zinc, Total	1200	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.42 J	2
Beryllium, TCLP	ND	0.004
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.52	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Silver, TCLP	ND	0.05
Thallium, TCLP	NA	0.002
Zinc, TCLP	0.93 B	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.02 J	0.05
Barium, SPLP	0.49 J	2
Beryllium, SPLP	0.0053	0.004
Chromium, SPLP	0.13	0.1
Cobalt, SPLP	0.038	1
Copper, SPLP	0.11	0.65
Iron, SPLP	100 B	5
Lead, SPLP	0.047	0.0075
Manganese, SPLP	0.42	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.13	0.1
Silver, SPLP	ND	0.05
Thallium, SPLP	NA	0.002
Zinc, SPLP	1 B	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

NA - Constituent not analyzed.

ND - Constituent not detected above the reporting limit.

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-175471-1
Client Project/Site: IDOT - Forest Park - WO 071

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

Attn: Mr. Andris Slesers

Authorized for release by:
1/9/2020 5:29:26 PM

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

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: FF-1(0-5)-122019
Date Collected: 12/20/19 09:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-8
Matrix: Solid
Percent Solids: 79.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0078	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Carbon disulfide	<0.0045		0.0045	0.00093	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Carbon tetrachloride	<0.0018		0.0018	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Chloromethane	<0.0045	*	0.0045	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00063	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Methyl Ethyl Ketone	<0.0045		0.0045	0.0020	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
methyl isobutyl ketone	<0.0045		0.0045	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Tetrachloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00063	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Trichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*75 - 131*	*12/21/19 11:25*	*12/30/19 16:06*	*1*
Dibromofluoromethane	*98*		*75 - 126*	*12/21/19 11:25*	*12/30/19 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 134*	*12/21/19 11:25*	*12/30/19 16:06*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*12/21/19 11:25*	*12/30/19 16:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: FF-1(0-5)-122019
Date Collected: 12/20/19 09:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-8
Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2,4-Dinitrophenol	<0.83		0.83	0.73	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2,4-Dinitrotoluene	<0.21		0.21	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2-Chloronaphthalene	<0.21		0.21	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
3 & 4 Methylphenol	<0.21		0.21	0.069	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.058	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Benzo[a]anthracene	<0.041		0.041	0.0055	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Benzo[a]pyrene	<0.041		0.041	0.0080	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Chrysene	<0.041		0.041	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0080	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Fluoranthene	<0.041		0.041	0.0076	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Hexachlorobenzene	<0.083		0.083	0.0096	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Hexachloroethane	<0.21		0.21	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1

Client Sample ID: FF-1(0-5)-122019

Date Collected: 12/20/19 09:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-8

Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
N-Nitrosodiphenylamine	<0.21		0.21	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Phenanthrene	<0.041		0.041	0.0057	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Phenol	<0.21		0.21	0.092	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1
Pyrene	<0.041		0.041	0.0082	mg/Kg	☼	12/30/19 20:19	01/07/20 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*108*		*31 - 143*	*12/30/19 20:19*	*01/07/20 22:18*	*1*
2-Fluorobiphenyl	*83*		*43 - 145*	*12/30/19 20:19*	*01/07/20 22:18*	*1*
2-Fluorophenol	*147*		*31 - 166*	*12/30/19 20:19*	*01/07/20 22:18*	*1*
Nitrobenzene-d5	*94*		*37 - 147*	*12/30/19 20:19*	*01/07/20 22:18*	*1*
Phenol-d5	*120*		*30 - 153*	*12/30/19 20:19*	*01/07/20 22:18*	*1*
Terphenyl-d14	*124*		*42 - 157*	*12/30/19 20:19*	*01/07/20 22:18*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 15:16	1
Barium	**0.42**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 15:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 15:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 15:16	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:16	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:16	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:16	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 15:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 15:16	1
Manganese	**0.52**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:16	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:16	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 15:16	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:16	1
Zinc	**0.93**	**B**	0.50	0.020	mg/L		01/07/20 14:49	01/08/20 10:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.020**	**J**	0.050	0.010	mg/L		01/02/20 15:40	01/07/20 00:06	1
Barium	**0.49**	**J**	0.50	0.050	mg/L		01/02/20 15:40	01/07/20 00:06	1
Beryllium	**0.0053**		0.0040	0.0040	mg/L		01/02/20 15:40	01/07/20 00:06	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/07/20 00:06	1
Chromium	**0.13**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:06	1
Cobalt	**0.038**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:06	1
Copper	**0.11**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:06	1
Iron	**100**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/07/20 00:06	1
Lead	**0.047**		0.0075	0.0075	mg/L		01/02/20 15:40	01/07/20 00:06	1
Manganese	**0.42**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:06	1
Nickel	**0.13**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:06	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/07/20 00:06	1

Client Sample ID: FF-1(0-5)-122019

Date Collected: 12/20/19 09:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-8

Matrix: Solid
Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:06	1
Zinc	**1.0**	**B**	0.50	0.020	mg/L		01/02/20 15:40	01/07/20 00:06	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.3		1.3	0.24	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Arsenic	**5.4**		0.63	0.21	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Barium	**90**		0.63	0.071	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Beryllium	**0.84**		0.25	0.059	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Cadmium	<0.13		0.13	0.023	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Calcium	**4900**		13	2.1	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Chromium	**18**		0.63	0.31	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Cobalt	**6.7**		0.31	0.082	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Copper	**23**		0.63	0.18	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Iron	**19000**		13	6.5	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Lead	**23**		0.31	0.14	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Magnesium	**3700**		6.3	3.1	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Manganese	**110**		0.63	0.091	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Nickel	**22**		0.63	0.18	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Potassium	**2400**		31	11	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Silver	**3.1**		0.31	0.081	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Sodium	**610**		63	9.3	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Thallium	**2.2**		0.63	0.31	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Vanadium	**24**		0.31	0.074	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1
Zinc	**1200**		1.3	0.55	mg/Kg	☼	12/24/19 06:51	12/26/19 17:05	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.020	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**		0.2	0.2	SU			12/27/19 13:00	1

Definitions/Glossary

Client: Weston Solutions, Inc. Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 374567

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8

Client Contact	Project Manager: Andrius Sleseva	Site Contact: Richard Wright	Date:	COC No:
Company Name: Weston Solutions, Inc.	Tel/Email: 773-230-1771	Lab Contact: Richard Wright	Carrier:	_____ of _____ COCs
Address: 300 Plaza Circle Ste. 202	Analysis Turnaround Time			Sampler:
City/State/Zip: Mundelein, IL 60031	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 406-425-2072	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: IDoT Forest Park/Maywood Area	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.: 500-175471
P O #	☐ 1 day			

500-175471 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PH	Sample Specific Notes:
1	PB-2 (0-5)-122019	12/20/19	0825	C	S	6			x	x	x	x	x	
2	PB-2 (5-10)-122019		0835											
3	PB-2 (5-10)-122019D		0835											
4	PB-2 (10-15)-122019		0845											
5	PB-1 (0-5)-122019		0900											
6	PB-1 (5-10)-122019		0910											
7	PB-1 (10-15)-122019		0915											
8	FF-1 (0-5)-122019		0930											
9	NT-1 (0-5)-122019		1015											
10	WP-1 (0-5)-122019		1030											

Elmhurst

503325

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 5.8; 4.7 Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Weston	12/20 @ 1420	Received by:		
Relinquished by:		12/20/19	Received by:	TA	12/20/19 1430
Relinquished by:	TA 1608	12/20/19	Received in Laboratory by:	TA CHI	12/20/19 1608

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 372: 1st Avenue at Roosevelt Road Office Phone Number, if available:

Physical Site Location (address, including number and street):
101 W. Roosevelt Road (ISGS SITE NO. 2690V-7)

City: Maywood 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: 41.86457 (Decimal Degrees) Longitude: -87.83373 (-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.): 67

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.

Project Name: FAP 372: 1st Avenue at Roosevelt Road Latitude: 41.86457 Longitude: - 87.83373

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 PB-1 AND PB-2 WERE SAMPLED ADJACENT TO ISGS SITE No. 2690V-7. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-175471-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, 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))

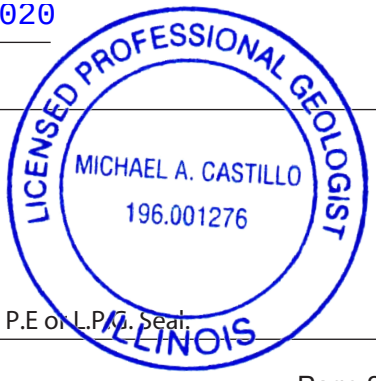
Company Name:	Weston Solutions, Inc.
Street Address:	300 Plaza Circle; Suite 202
City:	Mundelein State: IL Zip Code: 60060
Phone:	(224) 864-7200

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

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

27 February 2020
Date:

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



Summary Table of ISGS Site No. 2690V-7
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	PB-1	PB-1	PB-1	PB-2	PB-2	PB-2	PB-2	Soil Reference Concentrations[A]
Sample Date	12/20/2019	12/20/2019	12/20/2019	12/20/2019	12/20/2019	12/20/2019	12/20/2019	
Field Sample ID	PB-1(0-5)-122019	PB-1(5-10)-122019	PB-1(10-15)-122019	PB-2(0-5)-122019	PB-2(5-10)-122019D	PB-2(5-10)-122019	PB-2(10-15)-122019	
Lab Sample ID	500-175471-5	500-175471-6	500-175471-7	500-175471-1	500-175471-3	500-175471-2	500-175471-4	
ISGS Site Number	2690V-7	2690V-7	2690V-7	2690V-7	2690V-7	2690V-7	2690V-7	
Parameters								
Laboratory pH (s.u.)	8.4	8.2	7.9	7.9	7.9	8	8	<6.25, >9.0
VOCs (mg/kg)								
Acetone	0.046	0.085	0.0073 J	0.068	0.02	0.02	0.07	25
Methyl ethyl ketone	0.0087	ND	ND	0.0031 J	ND	ND	ND	---
SVOCs (mg/kg)								
2-Methylnaphthalene	ND	ND	0.012 J	ND	ND	ND	0.025 J	---
Acenaphthene	ND	ND	0.0077 J	ND	ND	ND	0.011 J	570
Benzo(a)anthracene	ND	ND	ND	0.0098 J	ND	ND	ND	0.9 / 1.1 / 1.8
Benzo(a)pyrene	ND	ND	ND	0.011 J	ND	ND	ND	0.09 / 1.3 / 2.1
Benzo(g,h,i)perylene	ND	0.02 J	ND	ND	0.022 J	0.017 J	ND	---
Chrysene	ND	0.018 J	0.031 J	0.013 J	0.025 J	ND	0.034 J	88
Fluoranthene	0.0081 J	ND	0.014 J	0.02 J	0.01 J	ND	0.0089 J	3100
Fluorene	ND	ND	0.012 J	ND	ND	ND	0.008 J	560
Naphthalene, SVOC	ND	ND	0.0087 J	ND	ND	ND	0.013 J	1.8
Phenanthrene	ND	0.015 J	0.053	0.028 J	0.028 J	0.014 J	0.074	---
Pyrene	0.009 J	0.017 J	0.053	0.02 J	0.024 J	0.015 J	0.037 J	2300
Total Metals (mg/kg)								
Antimony, Total	0.55 J	0.65 J	0.83 J	0.61 J	0.67 J	0.41 J	0.64 J	5
Arsenic, Total	7.1	8.1	7.5	5.1	13	8.9	11	11.3 / 13
Barium, Total	71	41	46	77	43	43	29	1500
Beryllium, Total	0.73	0.75	0.65	0.83	0.6	0.58	0.53	22
Cadmium, Total	0.026 J	ND	ND	0.3	ND	ND	ND	5.2
Calcium, Total	29000	58000	66000	16000	28000	35000	60000	---
Chromium, Total	16	18	17	17	14	14	12	21
Cobalt, Total	13	9.9	13	11	16	13	14	20
Copper, Total	28	26	23	35	38	30	32	2900
Iron, Total	19000	20000	18000	16000	21000	18000	17000	15000 / 15900
Lead, Total	18	14	13	53	21	14	18	107
Magnesium, Total	12000	21000	23000	11000	20000	21000	25000	325000
Manganese, Total	370	230	310	200	290	330	430	630 / 636
Mercury, Total	0.019 J	0.02	0.018	0.039	0.022	0.024	0.019	0.89
Nickel, Total	32	32	33	30	36	32	32	100
Potassium, Total	1900	3400	3100	2400	1900	2100	2100	---
Selenium, Total	ND	ND	ND	ND	ND	ND	ND	1.3
Silver, Total	2.5	3	2.2	3	2.7	2.6	2.2	4.4
Sodium, Total	1000	510	250	1000	420	430	350	---
Thallium, Total	2.2	2.4	1.4	2.1	2	1.8	1.9	2.6
Vanadium, Total	22	23	20	24	19	17	16	550
Zinc, Total	53	53	51	120	52	47	44	5100
TCLP Metals (mg/l)								
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.43 J	0.35 J	0.67	0.44 J	0.44 J	0.39 J	0.43 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	0.025	0.023 J	ND	ND	0.029	1
Copper, TCLP	ND	ND	ND	ND	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	2.3	1.8	2.1	7	2.8	3.2	3.8	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	ND	0.066	0.013 J	0.014 J	0.012 J	0.051	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	ND	ND	ND	ND	5
SPLP Metals (mg/l)								
Arsenic, SPLP	0.043 J	0.046 J	ND	ND	ND	ND	ND	0.05
Barium, SPLP	0.55	0.37 J	ND	0.12 J	0.12 J	0.12 J	ND	2
Beryllium, SPLP	0.006	0.0053	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.005
Chromium, SPLP	0.14	0.12	ND	0.031	0.035	0.034	0.01 J	0.1
Cobalt, SPLP	0.048	0.039	ND	ND	0.012 J	0.012 J	ND	1
Copper, SPLP	0.14	0.15	ND	0.022 J	0.038	0.033	ND	0.65
Iron, SPLP	130 B	120 B	1.3 B	23 B	27 B	28 B	6.8 B	5
Lead, SPLP	0.069	0.06	ND	0.011	0.015	0.018	ND	0.0075
Manganese, SPLP	0.64	0.75	0.043	0.18	0.23	0.23	0.087	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.15	0.15	ND	0.03	0.035	0.037	0.01 J	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	0.011 J	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.28 J	0.26 J	ND	ND	ND	ND	ND	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

ND - Constituent not detected above the reporting limit.

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-175471-1
Client Project/Site: IDOT - Forest Park - WO 071

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

Attn: Mr. Andris Slesers

Authorized for release by:
1/9/2020 5:29:26 PM

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

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-2(0-5)-122019
Date Collected: 12/20/19 08:25
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-1
Matrix: Solid
Percent Solids: 80.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.068**		0.019	0.0084	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Benzene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Bromomethane	<0.0048		0.0048	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Carbon disulfide	<0.0048		0.0048	0.0010	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Chlorobenzene	<0.0019		0.0019	0.00071	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Chloroethane	<0.0048		0.0048	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Chloromethane	<0.0048	*	0.0048	0.0019	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,2-Dichloroethane	<0.0048		0.0048	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
2-Hexanone	<0.0048		0.0048	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Methylene Chloride	<0.0048		0.0048	0.0019	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Methyl Ethyl Ketone	**0.0031**	**J**	0.0048	0.0021	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
methyl isobutyl ketone	<0.0048		0.0048	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Styrene	<0.0019		0.0019	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Trichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*75 - 131*	*12/21/19 11:25*	*12/30/19 11:03*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*12/21/19 11:25*	*12/30/19 11:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*12/21/19 11:25*	*12/30/19 11:03*	*1*
Toluene-d8 (Surr)	*94*		*75 - 124*	*12/21/19 11:25*	*12/30/19 11:03*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
1,2-Dichlorobenzene	<0.21		0.21	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
1,3-Dichlorobenzene	<0.21		0.21	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
1,4-Dichlorobenzene	<0.21		0.21	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-2(0-5)-122019
Date Collected: 12/20/19 08:25
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-1
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.41		0.41	0.094	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2,4,6-Trichlorophenol	<0.41		0.41	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2,4-Dichlorophenol	<0.41		0.41	0.098	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2,4-Dimethylphenol	<0.41		0.41	0.16	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2,4-Dinitrophenol	<0.83		0.83	0.72	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2,4-Dinitrotoluene	<0.21		0.21	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2,6-Dinitrotoluene	<0.21		0.21	0.081	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2-Chloronaphthalene	<0.21		0.21	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2-Chlorophenol	<0.21		0.21	0.070	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2-Methylnaphthalene	<0.083		0.083	0.0076	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2-Methylphenol	<0.21		0.21	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2-Nitroaniline	<0.21		0.21	0.055	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
2-Nitrophenol	<0.41		0.41	0.097	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
3 & 4 Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.057	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
3-Nitroaniline	<0.41		0.41	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
4,6-Dinitro-2-methylphenol	<0.83		0.83	0.33	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
4-Chloro-3-methylphenol	<0.41		0.41	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
4-Chloroaniline	<0.83		0.83	0.19	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
4-Nitroaniline	<0.41		0.41	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
4-Nitrophenol	<0.83		0.83	0.39	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Acenaphthene	<0.041		0.041	0.0074	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Acenaphthylene	<0.041		0.041	0.0054	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Anthracene	<0.041		0.041	0.0069	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Benzo[a]anthracene	**0.0098**	**J**	0.041	0.0055	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Benzo[a]pyrene	**0.011**	**J**	0.041	0.0079	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Benzo[b]fluoranthene	<0.041		0.041	0.0089	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Benzo[g,h,i]perylene	<0.041		0.041	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Benzo[k]fluoranthene	<0.041		0.041	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.042	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.075	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Butyl benzyl phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Carbazole	<0.21		0.21	0.10	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Chrysene	**0.013**	**J**	0.041	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Dibenz(a,h)anthracene	<0.041		0.041	0.0079	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Dibenzofuran	<0.21		0.21	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Diethyl phthalate	<0.21		0.21	0.070	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Dimethyl phthalate	<0.21		0.21	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Di-n-butyl phthalate	<0.21		0.21	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Di-n-octyl phthalate	<0.21		0.21	0.067	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Fluoranthene	**0.020**	**J**	0.041	0.0076	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Fluorene	<0.041		0.041	0.0058	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Hexachlorobenzene	<0.083		0.083	0.0095	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Hexachlorobutadiene	<0.21		0.21	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Hexachlorocyclopentadiene	<0.83		0.83	0.24	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Hexachloroethane	<0.21		0.21	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-2(0-5)-122019
Date Collected: 12/20/19 08:25
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-1
Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Isophorone	<0.21		0.21	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Naphthalene	<0.041		0.041	0.0063	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Nitrobenzene	<0.041		0.041	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
N-Nitrosodi-n-propylamine	<0.083		0.083	0.050	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
N-Nitrosodiphenylamine	<0.21		0.21	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Pentachlorophenol	<0.83		0.83	0.66	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Phenanthrene	**0.028**	**J**	0.041	0.0057	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Phenol	<0.21		0.21	0.091	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1
Pyrene	**0.020**	**J**	0.041	0.0082	mg/Kg	☼	12/30/19 20:19	01/07/20 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*113*		*31 - 143*	*12/30/19 20:19*	*01/07/20 02:03*	*1*
2-Fluorobiphenyl	*83*		*43 - 145*	*12/30/19 20:19*	*01/07/20 02:03*	*1*
2-Fluorophenol	*123*		*31 - 166*	*12/30/19 20:19*	*01/07/20 02:03*	*1*
Nitrobenzene-d5	*86*		*37 - 147*	*12/30/19 20:19*	*01/07/20 02:03*	*1*
Phenol-d5	*92*		*30 - 153*	*12/30/19 20:19*	*01/07/20 02:03*	*1*
Terphenyl-d14	*124*		*42 - 157*	*12/30/19 20:19*	*01/07/20 02:03*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 14:44	1
Barium	**0.44**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 14:44	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 14:44	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 14:44	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:44	1
Cobalt	**0.023**	**J**	0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:44	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:44	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 14:44	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 14:44	1
Manganese	**7.0**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:44	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:44	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 14:44	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:44	1
Zinc	**0.022**	**J B ***	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:40	01/06/20 23:37	1
Barium	**0.12**	**J**	0.50	0.050	mg/L		01/02/20 15:40	01/06/20 23:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:40	01/06/20 23:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/06/20 23:37	1
Chromium	**0.031**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:37	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:37	1
Copper	**0.022**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:37	1
Iron	**23**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/06/20 23:37	1
Lead	**0.011**		0.0075	0.0075	mg/L		01/02/20 15:40	01/06/20 23:37	1
Manganese	**0.18**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:37	1
Nickel	**0.030**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/06/20 23:37	1

Client Sample ID: PB-2(0-5)-122019

Date Collected: 12/20/19 08:25
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-1

Matrix: Solid
Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:37	1
Zinc	**0.060**	**J B**	0.50	0.020	mg/L		01/02/20 15:40	01/06/20 23:37	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.61**	**J**	1.2	0.24	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Arsenic	**5.1**		0.61	0.21	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Barium	**77**		0.61	0.070	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Beryllium	**0.83**		0.25	0.057	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Cadmium	**0.30**		0.12	0.022	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Calcium	**16000**		12	2.1	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Chromium	**17**		0.61	0.30	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Cobalt	**11**		0.31	0.080	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Copper	**35**		0.61	0.17	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Iron	**16000**		12	6.4	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Lead	**53**		0.31	0.14	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Magnesium	**11000**		6.1	3.0	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Manganese	**200**		0.61	0.089	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Nickel	**30**		0.61	0.18	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Potassium	**2400**		31	11	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Selenium	<0.61		0.61	0.36	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Silver	**3.0**		0.31	0.079	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Sodium	**1000**		61	9.1	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Thallium	**2.1**		0.61	0.31	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Vanadium	**24**		0.31	0.072	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1
Zinc	**120**		1.2	0.54	mg/Kg	☼	12/24/19 06:51	12/26/19 16:27	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.018	0.0061	mg/Kg	☼	12/27/19 13:40	12/30/19 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/27/19 12:40	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-2(5-10)-122019
Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-2
Matrix: Solid
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.020		0.017	0.0072	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Carbon disulfide	<0.0042		0.0042	0.00086	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Chloromethane	<0.0042	*	0.0042	0.0017	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Methyl Ethyl Ketone	<0.0042		0.0042	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
methyl isobutyl ketone	<0.0042		0.0042	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*12/21/19 11:25*	*12/30/19 11:29*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/21/19 11:25*	*12/30/19 11:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*12/21/19 11:25*	*12/30/19 11:29*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*	*12/21/19 11:25*	*12/30/19 11:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-2(5-10)-122019
Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-2
Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Benzo[g,h,i]perylene	**0.017**	**J**	0.039	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Fluoranthene	<0.039		0.039	0.0074	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1

Client Sample ID: PB-2(5-10)-122019

Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-2

Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Phenanthrene	**0.014**	**J**	0.039	0.0055	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1
Pyrene	**0.015**	**J**	0.039	0.0079	mg/Kg	☼	12/30/19 20:19	01/07/20 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*31 - 143*	*12/30/19 20:19*	*01/07/20 02:32*	*1*
2-Fluorobiphenyl	*95*		*43 - 145*	*12/30/19 20:19*	*01/07/20 02:32*	*1*
2-Fluorophenol	*138*		*31 - 166*	*12/30/19 20:19*	*01/07/20 02:32*	*1*
Nitrobenzene-d5	*103*		*37 - 147*	*12/30/19 20:19*	*01/07/20 02:32*	*1*
Phenol-d5	*91*		*30 - 153*	*12/30/19 20:19*	*01/07/20 02:32*	*1*
Terphenyl-d14	*130*		*42 - 157*	*12/30/19 20:19*	*01/07/20 02:32*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 14:49	1
Barium	**0.39**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 14:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 14:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 14:49	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:49	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:49	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:49	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 14:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 14:49	1
Manganese	**3.2**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:49	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:49	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 14:49	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:49	1
Zinc	**0.036**	**J B ***	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:40	01/06/20 23:41	1
Barium	**0.12**	**J**	0.50	0.050	mg/L		01/02/20 15:40	01/06/20 23:41	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:40	01/06/20 23:41	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/06/20 23:41	1
Chromium	**0.034**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:41	1
Cobalt	**0.012**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:41	1
Copper	**0.033**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:41	1
Iron	**28**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/06/20 23:41	1
Lead	**0.018**		0.0075	0.0075	mg/L		01/02/20 15:40	01/06/20 23:41	1
Manganese	**0.23**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:41	1
Nickel	**0.037**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:41	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/06/20 23:41	1

Client Sample ID: PB-2(5-10)-122019

Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-2

Matrix: Solid
Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:41	1
Zinc	**0.060**	**J B**	0.50	0.020	mg/L		01/02/20 15:40	01/06/20 23:41	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.41**	**J**	1.2	0.23	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Arsenic	**8.9**		0.60	0.20	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Barium	**43**		0.60	0.068	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Beryllium	**0.58**		0.24	0.056	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Cadmium	<0.12		0.12	0.022	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Calcium	**35000**		12	2.0	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Chromium	**14**		0.60	0.30	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Cobalt	**13**		0.30	0.078	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Copper	**30**		0.60	0.17	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Iron	**18000**		12	6.2	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Lead	**14**		0.30	0.14	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Magnesium	**21000**		6.0	3.0	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Manganese	**330**		0.60	0.087	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Nickel	**32**		0.60	0.17	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Potassium	**2100**		30	11	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Selenium	<0.60		0.60	0.35	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Silver	**2.6**		0.30	0.077	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Sodium	**430**		60	8.8	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Thallium	**1.8**		0.60	0.30	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Vanadium	**17**		0.30	0.071	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1
Zinc	**47**		1.2	0.52	mg/Kg	☼	12/24/19 06:51	12/26/19 16:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.018	0.0061	mg/Kg	☼	12/27/19 13:40	12/30/19 07:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**		0.2	0.2	SU			12/27/19 12:43	1

Client Sample ID: PB-2(5-10)-122019D

Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-3

Matrix: Solid
Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.020**		0.019	0.0082	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Chloromethane	<0.0047	*	0.0047	0.0019	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Methyl Ethyl Ketone	<0.0047		0.0047	0.0021	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
methyl isobutyl ketone	<0.0047		0.0047	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*12/21/19 11:25*	*12/30/19 11:54*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*12/21/19 11:25*	*12/30/19 11:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 134*	*12/21/19 11:25*	*12/30/19 11:54*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*12/21/19 11:25*	*12/30/19 11:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1

Client Sample ID: PB-2(5-10)-122019D

Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-3

Matrix: Solid
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Benzo[a]anthracene	<0.039		0.039	0.0052	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Benzo[g,h,i]perylene	**0.022**	**J**	0.039	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Chrysene	**0.025**	**J**	0.039	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Fluoranthene	**0.010**	**J**	0.039	0.0072	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-2(5-10)-122019D
Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-3
Matrix: Solid
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Phenanthrene	**0.028**	**J**	0.039	0.0054	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1
Pyrene	**0.024**	**J**	0.039	0.0077	mg/Kg	☼	12/30/19 20:19	01/07/20 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*109*		*31 - 143*	*12/30/19 20:19*	*01/07/20 03:01*	*1*
2-Fluorobiphenyl	*91*		*43 - 145*	*12/30/19 20:19*	*01/07/20 03:01*	*1*
2-Fluorophenol	*132*		*31 - 166*	*12/30/19 20:19*	*01/07/20 03:01*	*1*
Nitrobenzene-d5	*94*		*37 - 147*	*12/30/19 20:19*	*01/07/20 03:01*	*1*
Phenol-d5	*106*		*30 - 153*	*12/30/19 20:19*	*01/07/20 03:01*	*1*
Terphenyl-d14	*134*		*42 - 157*	*12/30/19 20:19*	*01/07/20 03:01*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 14:53	1
Barium	**0.44**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 14:53	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 14:53	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 14:53	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:53	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:53	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:53	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 14:53	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 14:53	1
Manganese	**2.8**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:53	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:53	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 14:53	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:53	1
Zinc	**0.45**	**J B ***	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:40	01/06/20 23:45	1
Barium	**0.12**	**J**	0.50	0.050	mg/L		01/02/20 15:40	01/06/20 23:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:40	01/06/20 23:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/06/20 23:45	1
Chromium	**0.035**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:45	1
Cobalt	**0.012**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:45	1
Copper	**0.038**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:45	1
Iron	**27**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/06/20 23:45	1
Lead	**0.015**		0.0075	0.0075	mg/L		01/02/20 15:40	01/06/20 23:45	1
Manganese	**0.23**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:45	1
Nickel	**0.035**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:45	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/06/20 23:45	1

Client Sample ID: PB-2(5-10)-122019D

Date Collected: 12/20/19 08:35
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-3

Matrix: Solid
Percent Solids: 82.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:45	1
Zinc	**0.19**	**J B**	0.50	0.020	mg/L		01/02/20 15:40	01/06/20 23:45	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.67**	**J**	1.1	0.22	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Arsenic	**13**		0.56	0.19	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Barium	**43**		0.56	0.064	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Beryllium	**0.60**		0.22	0.052	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Calcium	**28000**		11	1.9	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Chromium	**14**		0.56	0.28	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Cobalt	**16**		0.28	0.073	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Copper	**38**		0.56	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Iron	**21000**		11	5.8	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Lead	**21**		0.28	0.13	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Magnesium	**20000**		5.6	2.8	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Manganese	**290**		0.56	0.081	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Nickel	**36**		0.56	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Potassium	**1900**		28	9.9	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Silver	**2.7**		0.28	0.072	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Sodium	**420**		56	8.3	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Thallium	**2.0**		0.56	0.28	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Vanadium	**19**		0.28	0.066	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1
Zinc	**52**		1.1	0.49	mg/Kg	☼	12/24/19 06:51	12/26/19 16:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.019	0.0063	mg/Kg	☼	12/27/19 13:40	12/30/19 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/27/19 12:45	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-2(10-15)-122019
Date Collected: 12/20/19 08:45
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-4
Matrix: Solid
Percent Solids: 86.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.070		0.016	0.0071	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Benzene	<0.0016		0.0016	0.00042	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Bromoform	<0.0016		0.0016	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Carbon disulfide	<0.0041		0.0041	0.00085	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Chloroform	<0.0016		0.0016	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Chloromethane	<0.0041	*	0.0041	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00046	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Methyl Ethyl Ketone	<0.0041		0.0041	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
methyl isobutyl ketone	<0.0041		0.0041	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Tetrachloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Trichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1
Xylenes, Total	<0.0033		0.0033	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*12/21/19 11:25*	*12/30/19 13:11*	*1*
Dibromofluoromethane	*94*		*75 - 126*	*12/21/19 11:25*	*12/30/19 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 134*	*12/21/19 11:25*	*12/30/19 13:11*	*1*
Toluene-d8 (Surr)	*102*		*75 - 124*	*12/21/19 11:25*	*12/30/19 13:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1

Client Sample ID: PB-2(10-15)-122019

Date Collected: 12/20/19 08:45
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-4

Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2-Methylnaphthalene	**0.025**	**J**	0.076	0.0070	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Acenaphthene	**0.011**	**J**	0.038	0.0068	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Anthracene	<0.038		0.038	0.0063	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Benzo[a]anthracene	<0.038		0.038	0.0051	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Benzo[a]pyrene	<0.038		0.038	0.0073	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Chrysene	**0.034**	**J**	0.038	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Fluoranthene	**0.0089**	**J**	0.038	0.0070	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Fluorene	**0.0080**	**J**	0.038	0.0053	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1

Client Sample ID: PB-2(10-15)-122019

Date Collected: 12/20/19 08:45
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-4

Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0098	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Naphthalene	**0.013**	**J**	0.038	0.0058	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Phenanthrene	**0.074**		0.038	0.0053	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1
Pyrene	**0.037**	**J**	0.038	0.0075	mg/Kg	☼	12/30/19 20:19	01/07/20 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*31 - 143*	*12/30/19 20:19*	*01/07/20 03:31*	*1*
2-Fluorobiphenyl	*92*		*43 - 145*	*12/30/19 20:19*	*01/07/20 03:31*	*1*
2-Fluorophenol	*126*		*31 - 166*	*12/30/19 20:19*	*01/07/20 03:31*	*1*
Nitrobenzene-d5	*95*		*37 - 147*	*12/30/19 20:19*	*01/07/20 03:31*	*1*
Phenol-d5	*106*		*30 - 153*	*12/30/19 20:19*	*01/07/20 03:31*	*1*
Terphenyl-d14	*139*		*42 - 157*	*12/30/19 20:19*	*01/07/20 03:31*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 14:58	1
Barium	**0.43**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 14:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 14:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 14:58	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:58	1
Cobalt	**0.029**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:58	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:58	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 14:58	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 14:58	1
Manganese	**3.8**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:58	1
Nickel	**0.051**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:58	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 14:58	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 14:58	1
Zinc	<0.50	*	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:40	01/06/20 23:50	1
Barium	<0.50		0.50	0.050	mg/L		01/02/20 15:40	01/06/20 23:50	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:40	01/06/20 23:50	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/06/20 23:50	1
Chromium	**0.010**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:50	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:50	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:50	1
Iron	**6.8**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/06/20 23:50	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:40	01/06/20 23:50	1
Manganese	**0.087**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:50	1
Nickel	**0.010**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:50	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/06/20 23:50	1

Client Sample ID: PB-2(10-15)-122019

Date Collected: 12/20/19 08:45
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-4

Matrix: Solid
Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:50	1
Zinc	<0.50		0.50	0.020	mg/L		01/02/20 15:40	01/06/20 23:50	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.64**	**J**	1.1	0.22	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Arsenic	**11**		0.56	0.19	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Barium	**29**		0.56	0.063	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Beryllium	**0.53**		0.22	0.052	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Calcium	**60000**		110	19	mg/Kg	☼	12/24/19 06:51	12/27/19 10:51	10
Chromium	**12**		0.56	0.27	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Cobalt	**14**		0.28	0.073	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Copper	**32**		0.56	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Iron	**17000**		11	5.8	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Lead	**18**		0.28	0.13	mg/Kg	☼	12/24/19 06:51	12/27/19 10:47	1
Magnesium	**25000**		5.6	2.8	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Manganese	**430**		0.56	0.081	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Nickel	**32**		0.56	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Potassium	**2100**		28	9.8	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Silver	**2.2**		0.28	0.072	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Sodium	**350**		56	8.2	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Thallium	**1.9**		0.56	0.28	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Vanadium	**16**		0.28	0.066	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1
Zinc	**44**		1.1	0.49	mg/Kg	☼	12/24/19 06:51	12/26/19 16:40	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.018	0.0059	mg/Kg	☼	12/27/19 13:40	12/30/19 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**		0.2	0.2	SU			12/27/19 12:48	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-1(0-5)-122019
Date Collected: 12/20/19 09:00
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-5
Matrix: Solid
Percent Solids: 79.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.046**		0.021	0.0089	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Benzene	<0.0021		0.0021	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Chloroform	<0.0021		0.0021	0.00071	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Chloromethane	<0.0051	*	0.0051	0.0021	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,1-Dichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Ethylbenzene	<0.0021		0.0021	0.00098	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Methyl Ethyl Ketone	**0.0087**		0.0051	0.0023	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
methyl isobutyl ketone	<0.0051		0.0051	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00060	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00088	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Trichloroethene	<0.0021		0.0021	0.00069	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Vinyl chloride	<0.0021		0.0021	0.00091	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*	*12/21/19 11:25*	*12/30/19 13:36*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/21/19 11:25*	*12/30/19 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*12/21/19 11:25*	*12/30/19 13:36*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*12/21/19 11:25*	*12/30/19 13:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1

Client Sample ID: PB-1(0-5)-122019

Date Collected: 12/20/19 09:00
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-5

Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Fluoranthene	**0.0081**	**J**	0.040	0.0074	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1

Client Sample ID: PB-1(0-5)-122019

Date Collected: 12/20/19 09:00
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-5

Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Phenanthrene	<0.040		0.040	0.0056	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1
Pyrene	**0.0090**	**J**	0.040	0.0079	mg/Kg	☼	12/30/19 20:19	01/07/20 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*112*		*31 - 143*	*12/30/19 20:19*	*01/07/20 04:00*	*1*
2-Fluorobiphenyl	*79*		*43 - 145*	*12/30/19 20:19*	*01/07/20 04:00*	*1*
2-Fluorophenol	*116*		*31 - 166*	*12/30/19 20:19*	*01/07/20 04:00*	*1*
Nitrobenzene-d5	*78*		*37 - 147*	*12/30/19 20:19*	*01/07/20 04:00*	*1*
Phenol-d5	*96*		*30 - 153*	*12/30/19 20:19*	*01/07/20 04:00*	*1*
Terphenyl-d14	*133*		*42 - 157*	*12/30/19 20:19*	*01/07/20 04:00*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 15:02	1
Barium	**0.43**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 15:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 15:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 15:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:02	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:02	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:02	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 15:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 15:02	1
Manganese	**2.3**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:02	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:02	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 15:02	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:02	1
Zinc	**0.39**	**J B ***	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.043**	**J**	0.050	0.010	mg/L		01/02/20 15:40	01/06/20 23:54	1
Barium	**0.55**		0.50	0.050	mg/L		01/02/20 15:40	01/06/20 23:54	1
Beryllium	**0.0060**		0.0040	0.0040	mg/L		01/02/20 15:40	01/06/20 23:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/06/20 23:54	1
Chromium	**0.14**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:54	1
Cobalt	**0.048**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:54	1
Copper	**0.14**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:54	1
Iron	**130**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/06/20 23:54	1
Lead	**0.069**		0.0075	0.0075	mg/L		01/02/20 15:40	01/06/20 23:54	1
Manganese	**0.64**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:54	1
Nickel	**0.15**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:54	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/06/20 23:54	1

Client Sample ID: PB-1(0-5)-122019

Date Collected: 12/20/19 09:00
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-5

Matrix: Solid
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:54	1
Zinc	**0.28**	**J B**	0.50	0.020	mg/L		01/02/20 15:40	01/06/20 23:54	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.55**	**J**	1.2	0.23	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Arsenic	**7.1**		0.58	0.20	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Barium	**71**		0.58	0.067	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Beryllium	**0.73**		0.23	0.055	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Cadmium	**0.026**	**J**	0.12	0.021	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Calcium	**29000**		12	2.0	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Chromium	**16**		0.58	0.29	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Cobalt	**13**		0.29	0.077	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Copper	**28**		0.58	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Iron	**19000**		12	6.1	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Lead	**18**		0.29	0.13	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Magnesium	**12000**		5.8	2.9	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Manganese	**370**		0.58	0.085	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Nickel	**32**		0.58	0.17	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Potassium	**1900**		29	10	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Silver	**2.5**		0.29	0.075	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Sodium	**1000**		58	8.6	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Thallium	**2.2**		0.58	0.29	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Vanadium	**22**		0.29	0.069	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1
Zinc	**53**		1.2	0.51	mg/Kg	☼	12/24/19 06:51	12/26/19 16:44	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.020	0.0066	mg/Kg	☼	12/27/19 13:40	12/30/19 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.4**		0.2	0.2	SU			12/27/19 12:51	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-1(5-10)-122019
Date Collected: 12/20/19 09:10
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-6
Matrix: Solid
Percent Solids: 82.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.085		0.019	0.0085	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Benzene	<0.0019		0.0019	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Bromodichloromethane	<0.0019		0.0019	0.00040	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Bromoform	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Bromomethane	<0.0049		0.0049	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Carbon disulfide	<0.0049		0.0049	0.0010	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Carbon tetrachloride	<0.0019		0.0019	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Chlorobenzene	<0.0019		0.0019	0.00072	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Chloroethane	<0.0049		0.0049	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Chloroform	<0.0019		0.0019	0.00067	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Chloromethane	<0.0049	*	0.0049	0.0020	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00059	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Dibromochloromethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,1-Dichloroethane	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,2-Dichloroethane	<0.0049		0.0049	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,1-Dichloroethene	<0.0019		0.0019	0.00067	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,2-Dichloropropane	<0.0019		0.0019	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00068	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Ethylbenzene	<0.0019		0.0019	0.00093	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
2-Hexanone	<0.0049		0.0049	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Methylene Chloride	<0.0049		0.0049	0.0019	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Methyl Ethyl Ketone	<0.0049		0.0049	0.0022	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
methyl isobutyl ketone	<0.0049		0.0049	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Styrene	<0.0019		0.0019	0.00059	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Tetrachloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Toluene	<0.0019		0.0019	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00086	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00068	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00083	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Trichloroethene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Vinyl chloride	<0.0019		0.0019	0.00086	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1
Xylenes, Total	<0.0039		0.0039	0.00062	mg/Kg	☼	12/21/19 11:25	12/30/19 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*12/21/19 11:25*	*12/30/19 14:01*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/21/19 11:25*	*12/30/19 14:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 134*	*12/21/19 11:25*	*12/30/19 14:01*	*1*
Toluene-d8 (Surr)	*97*		*75 - 124*	*12/21/19 11:25*	*12/30/19 14:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1

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Job ID: 500-175471-1

Client Sample ID: PB-1(5-10)-122019
Date Collected: 12/20/19 09:10
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-6
Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2,4-Dinitrophenol	<0.81		0.81	0.70	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2-Methylnaphthalene	<0.081		0.081	0.0073	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
2-Nitrophenol	<0.40		0.40	0.094	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Benzo[a]pyrene	<0.040		0.040	0.0077	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Benzo[b]fluoranthene	<0.040		0.040	0.0086	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Benzo[g,h,i]perylene	**0.020**	**J**	0.040	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Chrysene	**0.018**	**J**	0.040	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1

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Lab Sample ID: 500-175471-6

Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Naphthalene	<0.040		0.040	0.0061	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Phenanthrene	**0.015**	**J**	0.040	0.0056	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1
Pyrene	**0.017**	**J**	0.040	0.0079	mg/Kg	☼	12/30/19 20:19	01/07/20 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*31 - 143*	*12/30/19 20:19*	*01/07/20 04:29*	*1*
2-Fluorobiphenyl	*98*		*43 - 145*	*12/30/19 20:19*	*01/07/20 04:29*	*1*
2-Fluorophenol	*137*		*31 - 166*	*12/30/19 20:19*	*01/07/20 04:29*	*1*
Nitrobenzene-d5	*104*		*37 - 147*	*12/30/19 20:19*	*01/07/20 04:29*	*1*
Phenol-d5	*110*		*30 - 153*	*12/30/19 20:19*	*01/07/20 04:29*	*1*
Terphenyl-d14	*145*		*42 - 157*	*12/30/19 20:19*	*01/07/20 04:29*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 15:07	1
Barium	**0.35**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 15:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 15:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 15:07	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:07	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:07	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:07	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 15:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 15:07	1
Manganese	**1.8**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:07	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:07	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 15:07	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:07	1
Zinc	<0.50	*	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.046**	**J**	0.050	0.010	mg/L		01/02/20 15:40	01/06/20 23:58	1
Barium	**0.37**	**J**	0.50	0.050	mg/L		01/02/20 15:40	01/06/20 23:58	1
Beryllium	**0.0053**		0.0040	0.0040	mg/L		01/02/20 15:40	01/06/20 23:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/06/20 23:58	1
Chromium	**0.12**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:58	1
Cobalt	**0.039**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:58	1
Copper	**0.15**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:58	1
Iron	**120**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/06/20 23:58	1
Lead	**0.060**		0.0075	0.0075	mg/L		01/02/20 15:40	01/06/20 23:58	1
Manganese	**0.75**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:58	1
Nickel	**0.15**		0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:58	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/06/20 23:58	1

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Lab Sample ID: 500-175471-6

Matrix: Solid
Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.011	J	0.025	0.010	mg/L		01/02/20 15:40	01/06/20 23:58	1
Zinc	0.26	J B	0.50	0.020	mg/L		01/02/20 15:40	01/06/20 23:58	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.65	J	1.2	0.22	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Arsenic	8.1		0.58	0.20	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Barium	41		0.58	0.066	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Beryllium	0.75		0.23	0.054	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Calcium	58000		120	20	mg/Kg	☼	12/24/19 06:51	12/27/19 10:59	10
Chromium	18		0.58	0.29	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Cobalt	9.9		0.29	0.075	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Copper	26		0.58	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Iron	20000		12	6.0	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Lead	14		0.29	0.13	mg/Kg	☼	12/24/19 06:51	12/27/19 10:55	1
Magnesium	21000		5.8	2.9	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Manganese	230		0.58	0.084	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Nickel	32		0.58	0.17	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Potassium	3400		29	10	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Selenium	<0.58		0.58	0.34	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Silver	3.0		0.29	0.074	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Sodium	510		58	8.5	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Thallium	2.4		0.58	0.29	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Vanadium	23		0.29	0.068	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1
Zinc	53		1.2	0.51	mg/Kg	☼	12/24/19 06:51	12/26/19 16:57	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:38	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 08:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.2		0.2	0.2	SU			12/27/19 12:54	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: PB-1(10-15)-122019
Date Collected: 12/20/19 09:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-7
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0073	J	0.015	0.0067	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Carbon disulfide	<0.0038		0.0038	0.00080	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Carbon tetrachloride	<0.0015		0.0015	0.00044	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Chloromethane	<0.0038	*	0.0038	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Methyl Ethyl Ketone	<0.0038		0.0038	0.0017	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
methyl isobutyl ketone	<0.0038		0.0038	0.0011	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*75 - 131*	*12/21/19 11:25*	*12/30/19 14:26*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/21/19 11:25*	*12/30/19 14:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 134*	*12/21/19 11:25*	*12/30/19 14:26*	*1*
Toluene-d8 (Surr)	*100*		*75 - 124*	*12/21/19 11:25*	*12/30/19 14:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1

Client Sample ID: PB-1(10-15)-122019

Date Collected: 12/20/19 09:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-7

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2-Methylnaphthalene	**0.012**	**J**	0.075	0.0068	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Acenaphthene	**0.0077**	**J**	0.037	0.0066	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Carbazole	<0.19		0.19	0.092	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Chrysene	**0.031**	**J**	0.037	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0071	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Fluoranthene	**0.014**	**J**	0.037	0.0069	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Fluorene	**0.012**	**J**	0.037	0.0052	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1

Client Sample ID: PB-1(10-15)-122019

Date Collected: 12/20/19 09:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-7

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Naphthalene	**0.0087**	**J**	0.037	0.0057	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Phenanthrene	**0.053**		0.037	0.0052	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1
Pyrene	**0.053**		0.037	0.0073	mg/Kg	☼	12/30/19 20:19	01/07/20 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*79*		*31 - 143*	*12/30/19 20:19*	*01/07/20 06:26*	*1*
2-Fluorobiphenyl	*87*		*43 - 145*	*12/30/19 20:19*	*01/07/20 06:26*	*1*
2-Fluorophenol	*122*		*31 - 166*	*12/30/19 20:19*	*01/07/20 06:26*	*1*
Nitrobenzene-d5	*92*		*37 - 147*	*12/30/19 20:19*	*01/07/20 06:26*	*1*
Phenol-d5	*98*		*30 - 153*	*12/30/19 20:19*	*01/07/20 06:26*	*1*
Terphenyl-d14	*168*	*X*	*42 - 157*	*12/30/19 20:19*	*01/07/20 06:26*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 15:11	1
Barium	**0.67**		0.50	0.050	mg/L		01/02/20 15:43	01/06/20 15:11	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 15:11	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 15:11	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:11	1
Cobalt	**0.025**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:11	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:11	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 15:11	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/07/20 13:23	1
Manganese	**2.1**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:11	1
Nickel	**0.066**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:11	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 15:11	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:11	1
Zinc	**0.23**	**J B ***	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:40	01/07/20 00:02	1
Barium	<0.50		0.50	0.050	mg/L		01/02/20 15:40	01/07/20 00:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:40	01/07/20 00:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/07/20 00:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:02	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:02	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:02	1
Iron	**1.3**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/07/20 00:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:40	01/07/20 00:02	1
Manganese	**0.043**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:02	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:02	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/07/20 00:02	1

Client Sample ID: PB-1(10-15)-122019

Date Collected: 12/20/19 09:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-7

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:02	1
Zinc	<0.50		0.50	0.020	mg/L		01/02/20 15:40	01/07/20 00:02	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.83**	**J**	1.1	0.22	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Arsenic	**7.5**		0.56	0.19	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Barium	**46**		0.56	0.063	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Beryllium	**0.65**		0.22	0.052	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Calcium	**66000**		110	19	mg/Kg	☼	12/24/19 06:51	12/27/19 11:07	10
Chromium	**17**		0.56	0.28	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Cobalt	**13**		0.28	0.073	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Copper	**23**		0.56	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Iron	**18000**		11	5.8	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Lead	**13**		0.28	0.13	mg/Kg	☼	12/24/19 06:51	12/27/19 11:03	1
Magnesium	**23000**		5.6	2.8	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Manganese	**310**		0.56	0.081	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Nickel	**33**		0.56	0.16	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Potassium	**3100**		28	9.8	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Selenium	<0.56		0.56	0.33	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Silver	**2.2**		0.28	0.072	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Sodium	**250**		56	8.2	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Thallium	**1.4**		0.56	0.28	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Vanadium	**20**		0.28	0.066	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1
Zinc	**51**		1.1	0.49	mg/Kg	☼	12/24/19 06:51	12/26/19 17:01	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.018	0.0058	mg/Kg	☼	12/27/19 13:40	12/30/19 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/27/19 12:57	1

Definitions/Glossary

Client: Weston Solutions, Inc. Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 374567

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8

Client Contact	Project Manager: Andrius Sleseva	Site Contact: Richard Wright	Date:	COC No:
Company Name: Weston Solutions, Inc.	Tel/Email: 773-230-1771	Lab Contact: Richard Wright	Carrier:	_____ of _____ COCs
Address: 300 Plaza Circle Ste. 202	Analysis Turnaround Time			Sampler:
City/State/Zip: Mundelein, IL 60031	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 406-425-2072	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: IDoT Forest Park/Maywood Area	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.: 500-175471
P O #	☐ 1 day			

500-175471 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PH	Sample Specific Notes:
1	PB-2 (0-5)-122019	12/20/19	0825	C	S	6			x	x	x	x	x	
2	PB-2 (5-10)-122019		0835											
3	PB-2 (5-10)-122019D		0835											
4	PB-2 (10-15)-122019		0845											
5	PB-1 (0-5)-122019		0900											
6	PB-1 (5-10)-122019		0910											
7	PB-1 (10-15)-122019		0915											
8	FF-1 (0-5)-122019		0930											
9	NT-1 (0-5)-122019		1015											
10	WP-1 (0-5)-122019		1030											

Elmhurst

503325

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 5.8; 4.7 Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Weston	12/20 @ 1420	Received by:		
Relinquished by:		12/20/19	Received by:	TA	12/20/19 1430
Relinquished by:	TA 1608	12/20/19	Received in Laboratory by:	TA CHI	12/20/19 1608

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 372: 1st Avenue at Roosevelt Road Office Phone Number, if available:

Physical Site Location (address, including number and street):
8601 Roosevelt Road (ISGS SITE NO. 2690V-10)

City: Forest 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: 41.86488 (Decimal Degrees) Longitude: -87.83315 (-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.): 325

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 PM-1 THROUGH PM-4 WERE SAMPLED ADJACENT TO ISGS SITE No. 2690V-10. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-175461-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, 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.

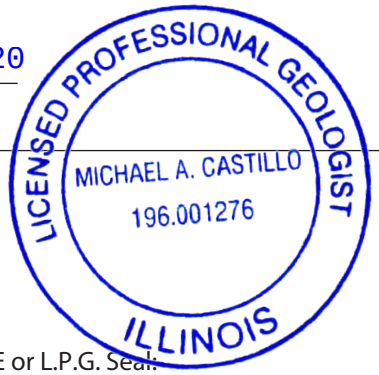
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

27 February 2020
Date:



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

Summary Table of ISGS Site No. 2690V-10
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	PM-1	PM-1	PM-1	PM-1	PM-2	PM-3	PM-4	Soil Reference Concentrations[A]
Sample Date	12/19/2019	12/19/2019	12/19/2019	12/19/2019	12/19/2019	12/19/2019	12/19/2019	
Field Sample ID	PM-1(0-5)-121919	PM-1(5-10)-121919D	PM-1(5-10)-121919	PM-1(10-15)-121919	PM-2(0-5)-121919	PM-3(0-5)-121919	PM-4(0-5)-121919	
Lab Sample ID	500-175461-3	500-175461-5	500-175461-4	500-175461-6	500-175461-7	500-175461-8	500-175461-9	
ISGS Site Number	2690V-10	2690V-10	2690V-10	2690V-10	2690V-10	2690V-10	2690V-10	
Parameters								
Laboratory pH (s.u.)	8	7.9	8	7.7	7.6	8.2	7.9	<6.25, >9.0
VOCs (mg/kg)								
Acetone	ND	0.056	0.044	0.0099 J	0.017	0.019	ND	25
Carbon disulfide	ND	ND	0.00094 J	ND	ND	ND	ND	9
Chlorobenzene	ND	0.0036	0.0015 J	ND	ND	ND	ND	1
Tetrachloroethene	ND	ND	ND	ND	ND	0.0035	ND	0.06
SVOCs (mg/kg)								
2-Methylnaphthalene	ND	ND	ND	0.038 J	0.017 J	ND	ND	---
Acenaphthene	ND	ND	ND	ND	ND	ND	0.025 J	570
Anthracene	ND	ND	ND	ND	ND	ND	0.046	12000
Benzo(a)anthracene	0.014 J	ND	ND	ND	0.013 J	0.012 J	0.078	0.9 / 1.1 / 1.8
Benzo(a)pyrene	0.014 J	ND	ND	ND	ND	ND	0.074	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	0.017 J	ND	ND	ND	ND	ND	0.11	0.9 / 1.5 / 2.1
Benzo(g,h,i)perylene	ND	0.018 J	0.022 J	ND	ND	ND	0.028 J	---
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	0.066	9
Chrysene	0.015 J	ND	ND	0.031 J	0.021 J	0.014 J	0.08	88
Fluoranthene	0.017 J	ND	ND	ND	0.019 J	0.022 J	0.18	3100
Fluorene	ND	ND	ND	ND	ND	ND	0.0069 J	560
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	0.024 J	0.9 / 0.9 / 1.6
Phenanthrene	ND	ND	0.015 J	0.053	0.039 J	0.016 J	0.076	---
Pyrene	0.018 J	ND	0.013 J	0.025 J	0.029 J	0.023 J	0.17	2300
Total Metals (mg/kg)								
Antimony, Total	0.25 J	0.23 J	ND	ND	ND	0.25 J	ND	5
Arsenic, Total	12	6.9	7.5	7.9	6.7	5.4	6.7	11.3 / 13
Barium, Total	74	43	47	27	43	55	49	1500
Beryllium, Total	0.74	0.7	0.69	0.53	0.64	0.68	0.58	22
Cadmium, Total	0.24 J	0.17 J	0.15 J	0.2 J	0.18 J	0.21 J	0.3 J	5.2
Calcium, Total	28000 B	60000 B	57000 B	58000 B	62000 B	27000 B	51000 B	---
Chromium, Total	17	19	19	14	16	18	14	21
Cobalt, Total	20	12	11	13	13	15	13	20
Copper, Total	31 B	22 B	22 B	26 B	23 B	22 B	24 B	2900
Iron, Total	24000	19000	20000	17000	17000	18000	17000	15000 / 15900
Lead, Total	22	13	14	15	17	14	25	107
Magnesium, Total	19000	22000	23000	24000	28000	19000	24000	325000
Manganese, Total	720	330	320	300	340	540	460	630 / 636
Mercury, Total	0.028	0.018 J	0.021	0.019	0.022	0.023	0.036	0.89
Nickel, Total	40	33	31	32	30	33	28	100
Potassium, Total	2200	3300	3300	2500	2400	1900	1600	---
Selenium, Total	0.57 J	0.38 J	0.46 J	0.34 J	ND	0.54 J	0.43 J	1.3
Silver, Total	2.7	2.7	2.6	1.7	2	2.6	2.3	4.4
Sodium, Total	150	200	200	160	290	260	260	---
Thallium, Total	1.2	1.2	0.96	1.2	0.87	0.96	0.86	2.6
Vanadium, Total	25	24	23	18	21	24	21	550
Zinc, Total	52	240 J	57 J	56	53	57	50	5100
TCLP Metals (mg/l)								
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.58	0.45 J	0.44 J	0.47 J	0.33 J	0.31 J	0.36 J	2
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	0.002 J	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	ND	0.04	0.019 J	ND	0.016 J	1
Copper, TCLP	ND	ND	ND	0.014 J	ND	ND	ND	0.65
Iron, TCLP	ND	ND	ND	ND	ND	ND	ND	5
Lead, TCLP	ND	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	0.26	4.5	2.8	1.8	4	0.25	6.8	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	ND	0.011 J	0.015 J	0.093	0.02 J	ND	0.014 J	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	0.02 J	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	ND	ND	ND	ND	ND	ND	5
SPLP Metals (mg/l)								
Arsenic, SPLP	ND	0.034 J	0.033 J	ND	ND	0.017 J	ND	0.05
Barium, SPLP	ND	0.3 J	0.31 J	ND	ND	0.25 J	ND	2
Beryllium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.004
Cadmium, SPLP	0.005 J	0.005 J	0.005 J	0.005 J	0.005 J	0.005 J	0.005 J	0.005
Chromium, SPLP	ND	0.093	0.096	ND	ND	0.077	0.011 J	0.1
Cobalt, SPLP	ND	0.039	0.033	ND	ND	0.023 J	ND	1
Copper, SPLP	ND	0.1	0.098	ND	ND	0.071	ND	0.65
Iron, SPLP	0.63	88	86	0.42	ND	67	6.6 J	5
Lead, SPLP	ND	0.05	0.046	ND	ND	0.034	0.01 J	0.0075
Manganese, SPLP	ND	1.2	0.73	0.034	0.036	0.35	0.081	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	ND	0.11	0.11	ND	ND	0.078	ND	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	ND	0.47 J	0.19 J	ND	ND	0.16 J	0.19 J	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

ND - Constituent not detected above the reporting limit.

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-175461-1
Client Project/Site: IDOT - Forest Park - WO 071

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

Attn: Mr. Andris Slesers

Authorized for release by:
1/7/2020 5:09:10 PM

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

Client Sample ID: PM-1(0-5)-121919

Date Collected: 12/19/19 14:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-3

Matrix: Solid
Percent Solids: 83.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Carbon tetrachloride	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Chlorobenzene	<0.0017		0.0017	0.00062	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Chloromethane	<0.0042	*	0.0042	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Dibromochloromethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Methyl Ethyl Ketone	<0.0042		0.0042	0.0019	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
methyl isobutyl ketone	<0.0042		0.0042	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00072	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Trichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Vinyl chloride	<0.0017		0.0017	0.00074	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*12/20/19 19:04*	*12/27/19 16:58*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*12/20/19 19:04*	*12/27/19 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*12/20/19 19:04*	*12/27/19 16:58*	*1*
Toluene-d8 (Surr)	*94*		*75 - 124*	*12/20/19 19:04*	*12/27/19 16:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1

Client Sample ID: PM-1(0-5)-121919
Date Collected: 12/19/19 14:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-3
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Benzo[a]anthracene	**0.014**	**J**	0.039	0.0053	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Benzo[a]pyrene	**0.014**	**J**	0.039	0.0077	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Benzo[b]fluoranthene	**0.017**	**J**	0.039	0.0086	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Chrysene	**0.015**	**J**	0.039	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Fluoranthene	**0.017**	**J**	0.039	0.0074	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1

Client Sample ID: PM-1(0-5)-121919
Date Collected: 12/19/19 14:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-3
Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1
Pyrene	**0.018**	**J**	0.039	0.0079	mg/Kg	☼	12/29/19 13:03	12/30/19 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*57*		*31 - 143*	*12/29/19 13:03*	*12/30/19 11:30*	*1*
2-Fluorobiphenyl	*69*		*43 - 145*	*12/29/19 13:03*	*12/30/19 11:30*	*1*
2-Fluorophenol	*90*		*31 - 166*	*12/29/19 13:03*	*12/30/19 11:30*	*1*
Nitrobenzene-d5	*68*		*37 - 147*	*12/29/19 13:03*	*12/30/19 11:30*	*1*
Phenol-d5	*92*		*30 - 153*	*12/29/19 13:03*	*12/30/19 11:30*	*1*
Terphenyl-d14	*130*		*42 - 157*	*12/29/19 13:03*	*12/30/19 11:30*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:48	01/06/20 10:16	1
Barium	**0.58**		0.50	0.050	mg/L		01/02/20 15:48	01/06/20 10:16	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:48	01/06/20 10:16	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:48	01/06/20 10:16	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:16	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:16	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:16	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:48	01/06/20 10:16	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:48	01/06/20 10:16	1
Manganese	**0.26**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:16	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:16	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:48	01/06/20 10:16	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:16	1
Zinc	**0.18**	**J B**	0.50	0.020	mg/L		01/02/20 15:48	01/06/20 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:46	01/06/20 16:08	1
Barium	<0.50		0.50	0.050	mg/L		01/02/20 15:46	01/06/20 16:08	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:46	01/06/20 16:08	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:46	01/06/20 16:08	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:08	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:08	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:08	1
Iron	**0.63**		0.40	0.20	mg/L		01/02/20 15:46	01/06/20 16:08	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:46	01/06/20 16:08	1
Manganese	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:08	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:08	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:46	01/06/20 16:08	1

Client Sample ID: PM-1(0-5)-121919

Date Collected: 12/19/19 14:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-3

Matrix: Solid
Percent Solids: 83.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:08	1
Zinc	<0.50		0.50	0.020	mg/L		01/02/20 15:46	01/06/20 16:08	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.2	0.23	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Arsenic	12		0.58	0.20	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Barium	74		0.58	0.066	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Beryllium	0.74		0.23	0.054	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Cadmium	0.24	B	0.12	0.021	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Calcium	28000	B	12	2.0	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Chromium	17		0.58	0.29	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Cobalt	20		0.29	0.076	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Copper	31	B	0.58	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Iron	24000		12	6.0	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Lead	22		0.29	0.13	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Magnesium	19000		5.8	2.9	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Manganese	720		0.58	0.084	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Nickel	40		0.58	0.17	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Potassium	2200		29	10	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Selenium	0.57	J	0.58	0.34	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Silver	2.7		0.29	0.075	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Sodium	150		58	8.6	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Thallium	1.2		0.58	0.29	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Vanadium	25		0.29	0.068	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1
Zinc	52		1.2	0.51	mg/Kg	☼	12/26/19 16:51	12/28/19 04:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 08:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0066	mg/Kg	☼	12/27/19 13:40	12/30/19 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.0		0.2	0.2	SU			12/26/19 15:50	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Client Sample ID: PM-1(5-10)-121919
Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-4
Matrix: Solid
Percent Solids: 82.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.044**		0.016	0.0069	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Carbon disulfide	**0.00094**	**J**	0.0040	0.00083	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Chlorobenzene	**0.0015**	**J**	0.0016	0.00059	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Methyl Ethyl Ketone	<0.0040		0.0040	0.0018	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
methyl isobutyl ketone	<0.0040		0.0040	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Vinyl chloride	<0.0016		0.0016	0.00071	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*12/20/19 19:04*	*12/30/19 18:48*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/20/19 19:04*	*12/30/19 18:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*12/20/19 19:04*	*12/30/19 18:48*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*12/20/19 19:04*	*12/30/19 18:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1

Client Sample ID: PM-1(5-10)-121919

Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-4

Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.091	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2,4-Dichlorophenol	<0.40		0.40	0.095	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Benzo[a]anthracene	<0.040		0.040	0.0054	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Benzo[a]pyrene	<0.040		0.040	0.0078	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Benzo[b]fluoranthene	<0.040		0.040	0.0087	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Benzo[g,h,i]perylene	**0.022**	**J**	0.040	0.013	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0077	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Fluoranthene	<0.040		0.040	0.0074	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Fluorene	<0.040		0.040	0.0056	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1

Client Sample ID: PM-1(5-10)-121919
Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-4
Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Pentachlorophenol	<0.81		0.81	0.64	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Phenanthrene	**0.015**	**J**	0.040	0.0056	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1
Pyrene	**0.013**	**J**	0.040	0.0080	mg/Kg	☼	12/29/19 13:03	12/30/19 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*31 - 143*	*12/29/19 13:03*	*12/30/19 11:59*	*1*
2-Fluorobiphenyl	*65*		*43 - 145*	*12/29/19 13:03*	*12/30/19 11:59*	*1*
2-Fluorophenol	*97*		*31 - 166*	*12/29/19 13:03*	*12/30/19 11:59*	*1*
Nitrobenzene-d5	*62*		*37 - 147*	*12/29/19 13:03*	*12/30/19 11:59*	*1*
Phenol-d5	*97*		*30 - 153*	*12/29/19 13:03*	*12/30/19 11:59*	*1*
Terphenyl-d14	*123*		*42 - 157*	*12/29/19 13:03*	*12/30/19 11:59*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:48	01/06/20 10:20	1
Barium	**0.44**	**J**	0.50	0.050	mg/L		01/02/20 15:48	01/06/20 10:20	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:48	01/06/20 10:20	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:48	01/06/20 10:20	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:20	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:20	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:20	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:48	01/06/20 10:20	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:48	01/06/20 10:20	1
Manganese	**2.8**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:20	1
Nickel	**0.015**	**J**	0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:20	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:48	01/06/20 10:20	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:20	1
Zinc	**0.050**	**J B**	0.50	0.020	mg/L		01/02/20 15:48	01/06/20 10:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.033**	**J**	0.050	0.010	mg/L		01/02/20 15:46	01/06/20 16:21	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		01/02/20 15:46	01/06/20 16:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:46	01/06/20 16:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:46	01/06/20 16:21	1
Chromium	**0.096**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:21	1
Cobalt	**0.033**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:21	1
Copper	**0.098**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:21	1
Iron	**86**		0.40	0.20	mg/L		01/02/20 15:46	01/06/20 16:21	1
Lead	**0.046**		0.0075	0.0075	mg/L		01/02/20 15:46	01/06/20 16:21	1
Manganese	**0.73**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:21	1
Nickel	**0.11**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:21	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:46	01/06/20 16:21	1

Client Sample ID: PM-1(5-10)-121919

Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-4

Matrix: Solid
Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:21	1
Zinc	**0.19**	**J**	0.50	0.020	mg/L		01/02/20 15:46	01/06/20 16:21	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.2		1.2	0.23	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Arsenic	**7.5**		0.60	0.21	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Barium	**47**		0.60	0.069	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Beryllium	**0.69**		0.24	0.056	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Cadmium	**0.15**	**B**	0.12	0.022	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Calcium	**57000**	**B**	120	20	mg/Kg	☼	12/26/19 16:51	12/31/19 02:14	10
Chromium	**19**		0.60	0.30	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Cobalt	**11**		0.30	0.079	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Copper	**22**	**B**	0.60	0.17	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Iron	**20000**		12	6.3	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Lead	**14**		0.30	0.14	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Magnesium	**23000**		6.0	3.0	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Manganese	**320**		0.60	0.087	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Nickel	**31**		0.60	0.17	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Potassium	**3300**		30	11	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Selenium	**0.46**	**J**	0.60	0.35	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Silver	**2.6**		0.30	0.078	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Sodium	**200**		60	8.9	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Thallium	**0.96**		0.60	0.30	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Vanadium	**23**		0.30	0.071	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1
Zinc	**57**		1.2	0.53	mg/Kg	☼	12/26/19 16:51	12/28/19 04:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 10:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 08:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.019	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**		0.2	0.2	SU			12/26/19 15:56	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Client Sample ID: PM-1(5-10)-121919D
Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-5
Matrix: Solid
Percent Solids: 82.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.056**		0.016	0.0068	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Carbon disulfide	<0.0039		0.0039	0.00081	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Carbon tetrachloride	<0.0016		0.0016	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Chlorobenzene	**0.0036**		0.0016	0.00058	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Chloroform	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Chloromethane	<0.0039		0.0039	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,1-Dichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,1-Dichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,2-Dichloropropane	<0.0016		0.0016	0.00040	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Methylene Chloride	<0.0039		0.0039	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Methyl Ethyl Ketone	<0.0039		0.0039	0.0017	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
methyl isobutyl ketone	<0.0039		0.0039	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Tetrachloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Toluene	<0.0016		0.0016	0.00039	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00069	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Vinyl chloride	<0.0016		0.0016	0.00069	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	12/20/19 19:04	12/30/19 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*12/20/19 19:04*	*12/30/19 19:13*	*1*
Dibromofluoromethane	*90*		*75 - 126*	*12/20/19 19:04*	*12/30/19 19:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 134*	*12/20/19 19:04*	*12/30/19 19:13*	*1*
Toluene-d8 (Surr)	*91*		*75 - 124*	*12/20/19 19:04*	*12/30/19 19:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Client Sample ID: PM-1(5-10)-121919D
Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-5
Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.090	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Benzo[g,h,i]perylene	**0.018**	**J**	0.039	0.013	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Fluoranthene	<0.039		0.039	0.0073	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1

Client Sample ID: PM-1(5-10)-121919D

Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-5

Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.048	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	12/29/19 13:03	12/30/19 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*61*		*31 - 143*	*12/29/19 13:03*	*12/30/19 12:27*	*1*
2-Fluorobiphenyl	*78*		*43 - 145*	*12/29/19 13:03*	*12/30/19 12:27*	*1*
2-Fluorophenol	*103*		*31 - 166*	*12/29/19 13:03*	*12/30/19 12:27*	*1*
Nitrobenzene-d5	*68*		*37 - 147*	*12/29/19 13:03*	*12/30/19 12:27*	*1*
Phenol-d5	*105*		*30 - 153*	*12/29/19 13:03*	*12/30/19 12:27*	*1*
Terphenyl-d14	*134*		*42 - 157*	*12/29/19 13:03*	*12/30/19 12:27*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:48	01/06/20 10:24	1
Barium	**0.45**	**J**	0.50	0.050	mg/L		01/02/20 15:48	01/06/20 10:24	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:48	01/06/20 10:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:48	01/06/20 10:24	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:24	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:24	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:24	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:48	01/06/20 10:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:48	01/06/20 10:24	1
Manganese	**4.5**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:24	1
Nickel	**0.011**	**J**	0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:24	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:48	01/06/20 10:24	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:24	1
Zinc	**0.19**	**J B**	0.50	0.020	mg/L		01/02/20 15:48	01/06/20 10:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.034**	**J**	0.050	0.010	mg/L		01/02/20 15:46	01/06/20 16:25	1
Barium	**0.30**	**J**	0.50	0.050	mg/L		01/02/20 15:46	01/06/20 16:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:46	01/06/20 16:25	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:46	01/06/20 16:25	1
Chromium	**0.093**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:25	1
Cobalt	**0.039**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:25	1
Copper	**0.10**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:25	1
Iron	**88**		0.40	0.20	mg/L		01/02/20 15:46	01/06/20 16:25	1
Lead	**0.050**		0.0075	0.0075	mg/L		01/02/20 15:46	01/06/20 16:25	1
Manganese	**1.2**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:25	1
Nickel	**0.11**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:25	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:46	01/06/20 16:25	1

Client Sample ID: PM-1(5-10)-121919D

Date Collected: 12/19/19 14:45
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-5

Matrix: Solid
Percent Solids: 82.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:25	1
Zinc	**0.47**	**J**	0.50	0.020	mg/L		01/02/20 15:46	01/06/20 16:25	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.23**	**J**	1.2	0.23	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Arsenic	**6.9**		0.58	0.20	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Barium	**43**		0.58	0.066	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Beryllium	**0.70**		0.23	0.054	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Cadmium	**0.17**	**B**	0.12	0.021	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Calcium	**60000**	**B**	120	20	mg/Kg	☼	12/26/19 16:51	12/31/19 02:18	10
Chromium	**19**		0.58	0.29	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Cobalt	**12**		0.29	0.076	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Copper	**22**	**B**	0.58	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Iron	**19000**		12	6.1	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Lead	**13**		0.29	0.13	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Magnesium	**22000**		5.8	2.9	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Manganese	**330**		0.58	0.085	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Nickel	**33**		0.58	0.17	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Potassium	**3300**		29	10	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Selenium	**0.38**	**J**	0.58	0.34	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Silver	**2.7**		0.29	0.075	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Sodium	**200**		58	8.6	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Thallium	**1.2**		0.58	0.29	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Vanadium	**24**		0.29	0.069	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1
Zinc	**240**		1.2	0.51	mg/Kg	☼	12/26/19 16:51	12/28/19 04:41	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 08:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.019	0.0062	mg/Kg	☼	12/27/19 13:40	12/30/19 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/26/19 16:03	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Client Sample ID: PM-1(10-15)-121919
Date Collected: 12/19/19 15:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-6
Matrix: Solid
Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0099	J	0.015	0.0064	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Carbon disulfide	<0.0037		0.0037	0.00077	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Chlorobenzene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Chloroform	<0.0015		0.0015	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Chloromethane	<0.0037	*	0.0037	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Ethylbenzene	<0.0015		0.0015	0.00071	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Methyl Ethyl Ketone	<0.0037		0.0037	0.0016	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
methyl isobutyl ketone	<0.0037		0.0037	0.0011	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Tetrachloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Toluene	<0.0015		0.0015	0.00037	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Vinyl chloride	<0.0015		0.0015	0.00065	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1
Xylenes, Total	<0.0030		0.0030	0.00047	mg/Kg	☼	12/20/19 19:04	12/27/19 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*75 - 131*	*12/20/19 19:04*	*12/27/19 17:24*	*1*
Dibromofluoromethane	*96*		*75 - 126*	*12/20/19 19:04*	*12/27/19 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*	*12/20/19 19:04*	*12/27/19 17:24*	*1*
Toluene-d8 (Surr)	*99*		*75 - 124*	*12/20/19 19:04*	*12/27/19 17:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1

Client Sample ID: PM-1(10-15)-121919
Date Collected: 12/19/19 15:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-6
Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2,4-Dinitrophenol	<0.75		0.75	0.66	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2-Methylnaphthalene	**0.038**	**J**	0.075	0.0068	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Benzo[a]pyrene	<0.037		0.037	0.0072	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Benzo[b]fluoranthene	<0.037		0.037	0.0080	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Carbazole	<0.19		0.19	0.093	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Chrysene	**0.031**	**J**	0.037	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0072	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Fluoranthene	<0.037		0.037	0.0069	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1

Client Sample ID: PM-1(10-15)-121919

Date Collected: 12/19/19 15:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-6

Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037		0.037	0.0096	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Phenanthrene	**0.053**		0.037	0.0052	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1
Pyrene	**0.025**	**J**	0.037	0.0074	mg/Kg	☼	12/29/19 13:03	12/30/19 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*40*		*31 - 143*	*12/29/19 13:03*	*12/30/19 14:22*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*12/29/19 13:03*	*12/30/19 14:22*	*1*
2-Fluorophenol	*100*		*31 - 166*	*12/29/19 13:03*	*12/30/19 14:22*	*1*
Nitrobenzene-d5	*82*		*37 - 147*	*12/29/19 13:03*	*12/30/19 14:22*	*1*
Phenol-d5	*96*		*30 - 153*	*12/29/19 13:03*	*12/30/19 14:22*	*1*
Terphenyl-d14	*146*		*42 - 157*	*12/29/19 13:03*	*12/30/19 14:22*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:48	01/06/20 10:29	1
Barium	**0.47**	**J**	0.50	0.050	mg/L		01/02/20 15:48	01/06/20 10:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:48	01/06/20 10:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:48	01/06/20 10:29	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:29	1
Cobalt	**0.040**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:29	1
Copper	**0.014**	**J**	0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:29	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:48	01/06/20 10:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:48	01/06/20 10:29	1
Manganese	**1.8**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:29	1
Nickel	**0.093**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:29	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:48	01/06/20 10:29	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:29	1
Zinc	<0.50		0.50	0.020	mg/L		01/02/20 15:48	01/06/20 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:46	01/06/20 16:29	1
Barium	<0.50		0.50	0.050	mg/L		01/02/20 15:46	01/06/20 16:29	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:46	01/06/20 16:29	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:46	01/06/20 16:29	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:29	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:29	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:29	1
Iron	**0.42**		0.40	0.20	mg/L		01/02/20 15:46	01/06/20 16:29	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:46	01/06/20 16:29	1
Manganese	**0.034**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:29	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:29	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:46	01/06/20 16:29	1

Client Sample ID: PM-1(10-15)-121919

Date Collected: 12/19/19 15:00
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-6

Matrix: Solid
Percent Solids: 87.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:29	1
Zinc	<0.50		0.50	0.020	mg/L		01/02/20 15:46	01/06/20 16:29	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Arsenic	**7.9**		0.55	0.19	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Barium	**27**		0.55	0.063	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Beryllium	**0.53**		0.22	0.051	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Cadmium	**0.20**	**B**	0.11	0.020	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Calcium	**58000**	**B**	110	19	mg/Kg	☼	12/26/19 16:51	12/31/19 02:22	10
Chromium	**14**		0.55	0.27	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Cobalt	**13**		0.27	0.072	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Copper	**26**	**B**	0.55	0.15	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Iron	**17000**		11	5.7	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Lead	**15**		0.27	0.13	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Magnesium	**24000**		5.5	2.7	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Manganese	**300**		0.55	0.080	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Nickel	**32**		0.55	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Potassium	**2500**		27	9.7	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Selenium	**0.34**	**J**	0.55	0.32	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Silver	**1.7**		0.27	0.071	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Sodium	**160**		55	8.1	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Thallium	**1.2**		0.55	0.27	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Vanadium	**18**		0.27	0.065	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1
Zinc	**56**		1.1	0.48	mg/Kg	☼	12/26/19 16:51	12/28/19 04:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 08:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.018	0.0060	mg/Kg	☼	12/27/19 13:40	12/30/19 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**		0.2	0.2	SU			12/26/19 16:09	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Client Sample ID: PM-2(0-5)-121919
Date Collected: 12/19/19 15:10
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-7
Matrix: Solid
Percent Solids: 85.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.014	0.0061	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Benzene	<0.0014		0.0014	0.00036	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Bromodichloromethane	<0.0014		0.0014	0.00029	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Bromoform	<0.0014		0.0014	0.00041	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Bromomethane	<0.0035		0.0035	0.0013	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Carbon disulfide	<0.0035		0.0035	0.00073	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Carbon tetrachloride	<0.0014		0.0014	0.00041	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Chlorobenzene	<0.0014		0.0014	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Chloroethane	<0.0035		0.0035	0.0010	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Chloroform	<0.0014		0.0014	0.00049	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Chloromethane	<0.0035		0.0035	0.0014	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
cis-1,2-Dichloroethene	<0.0014		0.0014	0.00039	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
cis-1,3-Dichloropropene	<0.0014		0.0014	0.00043	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Dibromochloromethane	<0.0014		0.0014	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,1-Dichloroethane	<0.0014		0.0014	0.00048	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,2-Dichloroethane	<0.0035		0.0035	0.0011	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,1-Dichloroethene	<0.0014		0.0014	0.00049	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,2-Dichloropropane	<0.0014		0.0014	0.00036	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,3-Dichloropropene, Total	<0.0014		0.0014	0.00050	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Ethylbenzene	<0.0014		0.0014	0.00068	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
2-Hexanone	<0.0035		0.0035	0.0011	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Methylene Chloride	<0.0035		0.0035	0.0014	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Methyl Ethyl Ketone	<0.0035		0.0035	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
methyl isobutyl ketone	<0.0035		0.0035	0.0010	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Methyl tert-butyl ether	<0.0014		0.0014	0.00041	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Styrene	<0.0014		0.0014	0.00043	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,1,2,2-Tetrachloroethane	<0.0014		0.0014	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Tetrachloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Toluene	<0.0014		0.0014	0.00036	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
trans-1,2-Dichloroethene	<0.0014		0.0014	0.00063	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
trans-1,3-Dichloropropene	<0.0014		0.0014	0.00050	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,1,1-Trichloroethane	<0.0014		0.0014	0.00047	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
1,1,2-Trichloroethane	<0.0014		0.0014	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Trichloroethene	<0.0014		0.0014	0.00048	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Vinyl chloride	<0.0014		0.0014	0.00062	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1
Xylenes, Total	<0.0028		0.0028	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*75 - 131*	*12/20/19 19:04*	*12/30/19 15:50*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*12/20/19 19:04*	*12/30/19 15:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 134*	*12/20/19 19:04*	*12/30/19 15:50*	*1*
Toluene-d8 (Surr)	*90*		*75 - 124*	*12/20/19 19:04*	*12/30/19 15:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1

Client Sample ID: PM-2(0-5)-121919
Date Collected: 12/19/19 15:10
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-7
Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2,4-Dinitrophenol	<0.77		0.77	0.67	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2-Methylnaphthalene	**0.017**	**J**	0.077	0.0070	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
2-Nitrophenol	<0.38		0.38	0.090	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Benzo[a]anthracene	**0.013**	**J**	0.038	0.0051	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Benzo[a]pyrene	<0.038		0.038	0.0074	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Benzo[b]fluoranthene	<0.038		0.038	0.0082	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Benzo[g,h,i]perylene	<0.038		0.038	0.012	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Benzo[k]fluoranthene	<0.038		0.038	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Chrysene	**0.021**	**J**	0.038	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0074	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Fluoranthene	**0.019**	**J**	0.038	0.0071	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1

Client Sample ID: PM-2(0-5)-121919

Date Collected: 12/19/19 15:10
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-7

Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038		0.038	0.0099	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Nitrobenzene	<0.038		0.038	0.0095	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Pentachlorophenol	<0.77		0.77	0.61	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Phenanthrene	**0.039**		0.038	0.0053	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1
Pyrene	**0.029**	**J**	0.038	0.0076	mg/Kg	☼	12/29/19 13:03	12/30/19 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*63*		*31 - 143*	*12/29/19 13:03*	*12/30/19 14:51*	*1*
2-Fluorobiphenyl	*84*		*43 - 145*	*12/29/19 13:03*	*12/30/19 14:51*	*1*
2-Fluorophenol	*108*		*31 - 166*	*12/29/19 13:03*	*12/30/19 14:51*	*1*
Nitrobenzene-d5	*81*		*37 - 147*	*12/29/19 13:03*	*12/30/19 14:51*	*1*
Phenol-d5	*104*		*30 - 153*	*12/29/19 13:03*	*12/30/19 14:51*	*1*
Terphenyl-d14	*163*	*X*	*42 - 157*	*12/29/19 13:03*	*12/30/19 14:51*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:48	01/06/20 10:33	1
Barium	**0.33**	**J**	0.50	0.050	mg/L		01/02/20 15:48	01/06/20 10:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:48	01/06/20 10:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:48	01/06/20 10:33	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:33	1
Cobalt	**0.019**	**J**	0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:33	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:33	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:48	01/06/20 10:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:48	01/06/20 10:33	1
Manganese	**4.0**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:33	1
Nickel	**0.020**	**J**	0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:33	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:48	01/06/20 10:33	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:33	1
Zinc	**0.19**	**J B**	0.50	0.020	mg/L		01/02/20 15:48	01/06/20 10:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:46	01/06/20 16:33	1
Barium	<0.50		0.50	0.050	mg/L		01/02/20 15:46	01/06/20 16:33	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:46	01/06/20 16:33	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:46	01/06/20 16:33	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:33	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:33	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:33	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:46	01/06/20 16:33	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:46	01/06/20 16:33	1
Manganese	**0.036**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:33	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:33	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:46	01/06/20 16:33	1

Client Sample ID: PM-2(0-5)-121919

Date Collected: 12/19/19 15:10
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-7

Matrix: Solid
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:33	1
Zinc	<0.50		0.50	0.020	mg/L		01/02/20 15:46	01/06/20 16:33	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Arsenic	**6.7**		0.55	0.19	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Barium	**43**		0.55	0.063	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Beryllium	**0.64**		0.22	0.052	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Cadmium	**0.18**	**B**	0.11	0.020	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Calcium	**62000**	**B**	110	19	mg/Kg	☼	12/26/19 16:51	12/31/19 02:27	10
Chromium	**16**		0.55	0.27	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Cobalt	**13**		0.28	0.073	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Copper	**23**	**B**	0.55	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Iron	**17000**		11	5.8	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Lead	**17**		0.28	0.13	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Magnesium	**28000**		5.5	2.7	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Manganese	**340**		0.55	0.080	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Nickel	**30**		0.55	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Potassium	**2400**		28	9.8	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Selenium	<0.55		0.55	0.33	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Silver	**2.0**		0.28	0.071	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Sodium	**290**		55	8.2	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Thallium	**0.87**		0.55	0.28	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Vanadium	**21**		0.28	0.065	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1
Zinc	**53**		1.1	0.49	mg/Kg	☼	12/26/19 16:51	12/28/19 04:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 10:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 08:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.018	0.0061	mg/Kg	☼	12/27/19 13:40	12/30/19 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.6**		0.2	0.2	SU			12/26/19 16:15	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Client Sample ID: PM-3(0-5)-121919
Date Collected: 12/19/19 15:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-8
Matrix: Solid
Percent Solids: 84.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.019**		0.015	0.0067	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Bromomethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Carbon disulfide	<0.0038		0.0038	0.00080	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Carbon tetrachloride	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Chlorobenzene	<0.0015		0.0015	0.00057	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,1-Dichloroethane	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,1-Dichloroethene	<0.0015		0.0015	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,2-Dichloropropane	<0.0015		0.0015	0.00040	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Methyl Ethyl Ketone	<0.0038		0.0038	0.0017	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
methyl isobutyl ketone	<0.0038		0.0038	0.0011	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Tetrachloroethene	**0.0035**		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00066	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Trichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Vinyl chloride	<0.0015		0.0015	0.00068	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1
Xylenes, Total	<0.0031		0.0031	0.00049	mg/Kg	☼	12/20/19 19:04	12/30/19 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*12/20/19 19:04*	*12/30/19 16:15*	*1*
Dibromofluoromethane	*88*		*75 - 126*	*12/20/19 19:04*	*12/30/19 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*12/20/19 19:04*	*12/30/19 16:15*	*1*
Toluene-d8 (Surr)	*85*		*75 - 124*	*12/20/19 19:04*	*12/30/19 16:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
1,2-Dichlorobenzene	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1

Client Sample ID: PM-3(0-5)-121919

Date Collected: 12/19/19 15:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-8

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2,4-Dichlorophenol	<0.39		0.39	0.092	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2,4-Dinitrophenol	<0.78		0.78	0.68	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2,6-Dinitrotoluene	<0.20		0.20	0.076	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2-Chlorophenol	<0.20		0.20	0.066	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2-Methylnaphthalene	<0.078		0.078	0.0071	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2-Methylphenol	<0.20		0.20	0.062	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2-Nitroaniline	<0.20		0.20	0.052	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.054	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
4,6-Dinitro-2-methylphenol	<0.78		0.78	0.31	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
4-Chloroaniline	<0.78		0.78	0.18	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
4-Nitrophenol	<0.78		0.78	0.37	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Benzo[a]anthracene	**0.012**	**J**	0.039	0.0052	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Benzo[a]pyrene	<0.039		0.039	0.0075	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Benzo[b]fluoranthene	<0.039		0.039	0.0084	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Benzo[k]fluoranthene	<0.039		0.039	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.058	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Carbazole	<0.20		0.20	0.097	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Chrysene	**0.014**	**J**	0.039	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Dibenzofuran	<0.20		0.20	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Di-n-octyl phthalate	<0.20		0.20	0.063	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Fluoranthene	**0.022**	**J**	0.039	0.0072	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Hexachlorobenzene	<0.078		0.078	0.0090	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Hexachlorocyclopentadiene	<0.78		0.78	0.22	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1

Client Sample ID: PM-3(0-5)-121919
Date Collected: 12/19/19 15:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-8
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
N-Nitrosodi-n-propylamine	<0.078		0.078	0.047	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Pentachlorophenol	<0.78		0.78	0.62	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Phenanthrene	**0.016**	**J**	0.039	0.0054	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Phenol	<0.20		0.20	0.086	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1
Pyrene	**0.023**	**J**	0.039	0.0077	mg/Kg	☼	12/29/19 13:03	12/30/19 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*55*		*31 - 143*	*12/29/19 13:03*	*12/30/19 15:20*	*1*
2-Fluorobiphenyl	*74*		*43 - 145*	*12/29/19 13:03*	*12/30/19 15:20*	*1*
2-Fluorophenol	*96*		*31 - 166*	*12/29/19 13:03*	*12/30/19 15:20*	*1*
Nitrobenzene-d5	*73*		*37 - 147*	*12/29/19 13:03*	*12/30/19 15:20*	*1*
Phenol-d5	*104*		*30 - 153*	*12/29/19 13:03*	*12/30/19 15:20*	*1*
Terphenyl-d14	*164*	*X*	*42 - 157*	*12/29/19 13:03*	*12/30/19 15:20*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:48	01/06/20 10:38	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		01/02/20 15:48	01/06/20 10:38	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:48	01/06/20 10:38	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:48	01/06/20 10:38	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:38	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:38	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:38	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:48	01/06/20 10:38	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:48	01/06/20 10:38	1
Manganese	**0.25**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:38	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:38	1
Selenium	**0.020**	**J ***	0.050	0.020	mg/L		01/02/20 15:48	01/06/20 10:38	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:38	1
Zinc	**0.044**	**J B**	0.50	0.020	mg/L		01/02/20 15:48	01/06/20 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.017**	**J**	0.050	0.010	mg/L		01/02/20 15:46	01/06/20 16:37	1
Barium	**0.25**	**J**	0.50	0.050	mg/L		01/02/20 15:46	01/06/20 16:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:46	01/06/20 16:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:46	01/06/20 16:37	1
Chromium	**0.077**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:37	1
Cobalt	**0.023**	**J**	0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:37	1
Copper	**0.071**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:37	1
Iron	**67**		0.40	0.20	mg/L		01/02/20 15:46	01/06/20 16:37	1
Lead	**0.034**		0.0075	0.0075	mg/L		01/02/20 15:46	01/06/20 16:37	1
Manganese	**0.35**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:37	1
Nickel	**0.078**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:37	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:46	01/06/20 16:37	1

Client Sample ID: PM-3(0-5)-121919

Date Collected: 12/19/19 15:15
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-8

Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:37	1
Zinc	**0.16**	**J**	0.50	0.020	mg/L		01/02/20 15:46	01/06/20 16:37	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.25**	**J**	1.2	0.22	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Arsenic	**5.4**		0.58	0.20	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Barium	**55**		0.58	0.066	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Beryllium	**0.68**		0.23	0.054	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Cadmium	**0.21**	**B**	0.12	0.021	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Calcium	**27000**	**B**	12	2.0	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Chromium	**18**		0.58	0.29	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Cobalt	**15**		0.29	0.075	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Copper	**22**	**B**	0.58	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Iron	**18000**		12	6.0	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Lead	**14**		0.29	0.13	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Magnesium	**19000**		5.8	2.9	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Manganese	**540**		0.58	0.084	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Nickel	**33**		0.58	0.17	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Potassium	**1900**		29	10	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Selenium	**0.54**	**J**	0.58	0.34	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Silver	**2.6**		0.29	0.074	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Sodium	**260**		58	8.5	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Thallium	**0.96**		0.58	0.29	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Vanadium	**24**		0.29	0.068	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1
Zinc	**57**		1.2	0.51	mg/Kg	☼	12/26/19 16:51	12/28/19 04:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 08:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.019	0.0063	mg/Kg	☼	12/27/19 13:40	12/30/19 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**		0.2	0.2	SU			12/26/19 16:21	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Client Sample ID: PM-4(0-5)-121919
Date Collected: 12/19/19 15:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-9
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0088	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Carbon tetrachloride	<0.0020		0.0020	0.00059	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Chloroform	<0.0020		0.0020	0.00070	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Chloromethane	<0.0051		0.0051	0.0020	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Dibromochloromethane	<0.0020		0.0020	0.00066	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,1-Dichloroethane	<0.0020		0.0020	0.00069	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,1-Dichloroethene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Methyl Ethyl Ketone	<0.0051		0.0051	0.0022	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
methyl isobutyl ketone	<0.0051		0.0051	0.0015	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00090	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Trichloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1
Xylenes, Total	<0.0040		0.0040	0.00065	mg/Kg	☼	12/20/19 19:04	12/30/19 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*75 - 131*	*12/20/19 19:04*	*12/30/19 16:41*	*1*
Dibromofluoromethane	*90*		*75 - 126*	*12/20/19 19:04*	*12/30/19 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 134*	*12/20/19 19:04*	*12/30/19 16:41*	*1*
Toluene-d8 (Surr)	*84*		*75 - 124*	*12/20/19 19:04*	*12/30/19 16:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1

Client Sample ID: PM-4(0-5)-121919
Date Collected: 12/19/19 15:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-9
Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.086	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2,4-Dichlorophenol	<0.38		0.38	0.090	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2,4-Dimethylphenol	<0.38		0.38	0.14	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2,4-Dinitrophenol	<0.76		0.76	0.67	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2-Methylnaphthalene	<0.076		0.076	0.0070	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2-Methylphenol	<0.19		0.19	0.061	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
2-Nitrophenol	<0.38		0.38	0.089	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Acenaphthene	**0.025**	**J**	0.038	0.0068	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Acenaphthylene	<0.038		0.038	0.0050	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Anthracene	**0.046**		0.038	0.0063	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Benzo[a]anthracene	**0.078**		0.038	0.0051	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Benzo[a]pyrene	**0.074**		0.038	0.0073	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Benzo[b]fluoranthene	**0.11**		0.038	0.0082	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Benzo[g,h,i]perylene	**0.028**	**J**	0.038	0.012	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Benzo[k]fluoranthene	**0.066**		0.038	0.011	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Carbazole	<0.19		0.19	0.095	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Chrysene	**0.080**		0.038	0.010	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Dibenz(a,h)anthracene	<0.038		0.038	0.0073	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Di-n-octyl phthalate	<0.19		0.19	0.062	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Fluoranthene	**0.18**		0.038	0.0070	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Fluorene	**0.0069**	**J**	0.038	0.0053	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Hexachlorobenzene	<0.076		0.076	0.0088	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1

Client Sample ID: PM-4(0-5)-121919

Date Collected: 12/19/19 15:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-9

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.024**	**J**	0.038	0.0098	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Naphthalene	<0.038		0.038	0.0058	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Nitrobenzene	<0.038		0.038	0.0094	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Pentachlorophenol	<0.76		0.76	0.61	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Phenanthrene	**0.076**		0.038	0.0053	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1
Pyrene	**0.17**		0.038	0.0075	mg/Kg	☼	12/29/19 13:03	12/30/19 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*58*		*31 - 143*	*12/29/19 13:03*	*12/30/19 15:48*	*1*
2-Fluorobiphenyl	*79*		*43 - 145*	*12/29/19 13:03*	*12/30/19 15:48*	*1*
2-Fluorophenol	*111*		*31 - 166*	*12/29/19 13:03*	*12/30/19 15:48*	*1*
Nitrobenzene-d5	*81*		*37 - 147*	*12/29/19 13:03*	*12/30/19 15:48*	*1*
Phenol-d5	*105*		*30 - 153*	*12/29/19 13:03*	*12/30/19 15:48*	*1*
Terphenyl-d14	*149*		*42 - 157*	*12/29/19 13:03*	*12/30/19 15:48*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:48	01/06/20 10:59	1
Barium	**0.36**	**J**	0.50	0.050	mg/L		01/02/20 15:48	01/06/20 10:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:48	01/06/20 10:59	1
Cadmium	**0.0020**	**J**	0.0050	0.0020	mg/L		01/02/20 15:48	01/06/20 10:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:59	1
Cobalt	**0.016**	**J**	0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:59	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:59	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:48	01/06/20 10:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:48	01/06/20 10:59	1
Manganese	**6.8**		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:59	1
Nickel	**0.014**	**J**	0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:59	1
Selenium	<0.050	*	0.050	0.020	mg/L		01/02/20 15:48	01/06/20 10:59	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:48	01/06/20 10:59	1
Zinc	**0.23**	**J B**	0.50	0.020	mg/L		01/02/20 15:48	01/06/20 10:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:46	01/06/20 16:42	1
Barium	<0.50		0.50	0.050	mg/L		01/02/20 15:46	01/06/20 16:42	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:46	01/06/20 16:42	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:46	01/06/20 16:42	1
Chromium	**0.011**	**J**	0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:42	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:42	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:42	1
Iron	**6.6**		0.40	0.20	mg/L		01/02/20 15:46	01/06/20 16:42	1
Lead	**0.010**		0.0075	0.0075	mg/L		01/02/20 15:46	01/06/20 16:42	1
Manganese	**0.081**		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:42	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:42	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:46	01/06/20 16:42	1

Client Sample ID: PM-4(0-5)-121919

Date Collected: 12/19/19 15:25
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175461-9

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:46	01/06/20 16:42	1
Zinc	**0.19**	**J F1**	0.50	0.020	mg/L		01/02/20 15:46	01/06/20 16:42	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Arsenic	**6.7**		0.56	0.19	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Barium	**49**		0.56	0.064	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Beryllium	**0.58**		0.23	0.053	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Cadmium	**0.30**	**B**	0.11	0.020	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Calcium	**51000**	**B**	110	19	mg/Kg	☼	12/26/19 16:51	12/31/19 02:31	10
Chromium	**14**		0.56	0.28	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Cobalt	**13**		0.28	0.074	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Copper	**24**	**B**	0.56	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Iron	**17000**		11	5.9	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Lead	**25**		0.28	0.13	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Magnesium	**24000**		5.6	2.8	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Manganese	**460**		0.56	0.082	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Nickel	**28**		0.56	0.16	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Potassium	**1600**		28	10	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Selenium	**0.43**	**J**	0.56	0.33	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Silver	**2.3**		0.28	0.073	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Sodium	**260**		56	8.3	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Thallium	**0.86**		0.56	0.28	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Vanadium	**21**		0.28	0.066	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1
Zinc	**50**		1.1	0.49	mg/Kg	☼	12/26/19 16:51	12/28/19 05:10	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 08:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.018	0.0059	mg/Kg	☼	12/27/19 13:40	12/30/19 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/26/19 16:33	1

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175461-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Job ID: 500-175461-1
Project/Site: IDOT - Forest Park - WO 071

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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

500-175461 COC

Chain of Custody Record

Lab Job #: 500-175461

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 5.4, 4.6, 5.3, 1.6

(optional) Report To	(optional) Bill To
Contact: Audrey Sieser S	Contact:
Company: Weston Solutions, Inc.	Company:
Address:	Address: Same
Address:	Address:
Phone: 772-220-1771	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston Solutions, Inc.	02056. .071
Project Name: IDOT Forest Park / Maywood Area	
Project Location/State: Forest Park/Maywood, IL	Lab Project #
Sampler: Mex. D + Taylor O.	Lab PM: Richard Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs	SVOCs	Total metals	TCLP/SPLP metals	pH	Comments
1		MF-1(10-15)-121919	12/19/19	1315	6	S		x	x	x	x	x	
2		MF-1(15-22)-121919		1325									
3		PM-1 (0-5)-121919		1435									
4		PM-1 (5-10)-121919		1445									
5		PM-1(5-10)-121919D		1445									
6		PM-1(10-15)-121919		1500									
7		PM-2(0-5)-121919		1510									
8		PM-3(0-5)-121919		1515									
9		PM-4(0-5)-121919		1525									
		T. Wall			12-19-19								

Elmhurst
503325

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	12/19/19	1830	T. Wall	Weston	12-19-19	1830
T. Wall	Weston	12-20-19	0900	[signature]	TA	12/20/19	900
[signature]	TA	12/20/19	1230	[signature] TA-CHI		12/20/19	1230

Lab Courier: TA
Shipped:
Hand Delivered:

Matrix Key

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

Client Comments:

Lab Comments:

TAL-4124-500 (1909)

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 372: 1st Avenue at Roosevelt Road Office Phone Number, if available:

Physical Site Location (address, including number and street):
2199 S. 1st Avenue (ISGS SITE NO. 2690V-13)

City: Unicorp. Proviso Township State: IL Zip Code:

County: Cook Township: unincorporated Proviso

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

Latitude: 41.86438 (Decimal Degrees) Longitude: -87.83265 (-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.): 33

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.

Project Name: FAP 372: 1st Avenue at Roosevelt Road Latitude: 41.86438 Longitude: - 87.83265

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 MF-2 AND MF-3 WERE SAMPLED ADJACENT TO ISGS SITE No. 2690V-13. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-175459-1.
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, 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.

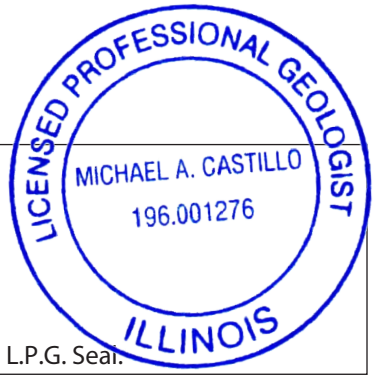
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

27 February 2020
Date:



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

Summary Table of ISGS Site No. 2690V-13
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	MF-2	MF-3	Soil Reference Concentrations[A]
Sample Date	12/19/2019	12/19/2019	
Field Sample ID	MF-2(0-5)-121919	MF-3(0-5)-121919	
Lab Sample ID	500-175459-18	500-175459-17	
ISGS Site Number	2690V-13	2690V-13	
Parameters			
Laboratory pH (s.u.)	7.9	8	<6.25, >9.0
VOCs (mg/kg)	No Detections		
SVOCs (mg/kg)			
Benzo(a)anthracene	0.014 J	ND	0.9 / 1.1 / 1.8
Benzo(a)pyrene	0.018 J	ND	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	0.025 J	ND	0.9 / 1.5 / 2.1
Chrysene	0.018 J	ND	88
Fluoranthene	0.035 J	0.0085 J	3100
Phenanthrene	0.011 J	ND	---
Pyrene	0.022 J	ND	2300
Total Metals (mg/kg)			
Antimony, Total	ND	0.29 J	5
Arsenic, Total	5.9	8.3	11.3 / 13
Barium, Total	82	65	1500
Beryllium, Total	0.8	0.83	22
Cadmium, Total	0.43	1.2	5.2
Calcium, Total	47000 B	61000 B	---
Chromium, Total	20	19	21
Cobalt, Total	8.8	9.6	20
Copper, Total	30	59	2900
Iron, Total	19000 B	21000 B	15000 / 15900
Lead, Total	250	240	107
Magnesium, Total	22000	29000	325000
Manganese, Total	260 B	310 B	630 / 636
Mercury, Total	0.056	0.029	0.89
Nickel, Total	25	31	100
Potassium, Total	2300	3000	---
Selenium, Total	0.56 J	0.8	1.3
Silver, Total	2.2	2.1	4.4
Sodium, Total	190	230	---
Thallium, Total	0.78	0.83	2.6
Vanadium, Total	26	26	550
Zinc, Total	110	210	5100
TCLP Metals (mg/l)			
Arsenic, TCLP	ND	ND	0.05
Barium, TCLP	0.29 J	0.28 J	2
Beryllium, TCLP	ND	ND	0.004
Cadmium, TCLP	ND	ND	0.005
Chromium, TCLP	ND	ND	0.1
Cobalt, TCLP	ND	ND	1
Copper, TCLP	ND	ND	0.65
Iron, TCLP	ND	ND	5
Lead, TCLP	ND	ND	0.0075
Manganese, TCLP	0.17	0.34	0.15
Mercury, TCLP	ND	ND	0.002
Nickel, TCLP	ND	ND	0.1
Selenium, TCLP	ND	ND	0.05
Silver, TCLP	ND	ND	0.05
Zinc, TCLP	ND	ND	5
SPLP Metals (mg/l)			
Arsenic, SPLP	ND	ND	0.05
Barium, SPLP	0.12 J	ND	2
Beryllium, SPLP	ND	ND	0.004
Cadmium, SPLP	ND	ND	0.005
Chromium, SPLP	0.037	ND	0.1
Cobalt, SPLP	ND	ND	1
Copper, SPLP	0.025	0.011 J	0.65
Iron, SPLP	25	5.4	5
Lead, SPLP	0.02	ND	0.0075
Manganese, SPLP	0.088	0.018 J	0.15
Mercury, SPLP	ND	ND	0.002
Nickel, SPLP	0.026	ND	0.1
Selenium, SPLP	ND	ND	0.05
Silver, SPLP	ND	ND	0.05
Zinc, SPLP	0.12 J	ND	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

ND - Constituent not detected above the reporting limit.

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-175459-1
Client Project/Site: IDOT - Forest Park - WO 071

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

Attn: Mr. Andris Slesers

Authorized for release by:
1/8/2020 4:38:38 PM

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

Client Sample ID: MF-3(0-5)-121919

Date Collected: 12/19/19 12:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-17

Matrix: Solid
Percent Solids: 82.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0079	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Benzene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Bromoform	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Bromomethane	<0.0045		0.0045	0.0017	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Carbon disulfide	<0.0045		0.0045	0.00094	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Carbon tetrachloride	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Chlorobenzene	<0.0018		0.0018	0.00067	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Chloroethane	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Chloroform	<0.0018		0.0018	0.00063	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Chloromethane	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Dibromochloromethane	<0.0018		0.0018	0.00059	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,1-Dichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,2-Dichloroethane	<0.0045		0.0045	0.0014	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,1-Dichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,3-Dichloropropene, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Ethylbenzene	<0.0018		0.0018	0.00087	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
2-Hexanone	<0.0045		0.0045	0.0014	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Methylene Chloride	<0.0045		0.0045	0.0018	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Methyl Ethyl Ketone	<0.0045		0.0045	0.0020	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
methyl isobutyl ketone	<0.0045		0.0045	0.0013	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00058	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00080	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00078	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Trichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Vinyl chloride	<0.0018		0.0018	0.00080	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1
Xylenes, Total	<0.0036		0.0036	0.00058	mg/Kg	☼	12/20/19 19:04	12/30/19 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*12/20/19 19:04*	*12/30/19 14:08*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*12/20/19 19:04*	*12/30/19 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 134*	*12/20/19 19:04*	*12/30/19 14:08*	*1*
Toluene-d8 (Surr)	*87*		*75 - 124*	*12/20/19 19:04*	*12/30/19 14:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
1,4-Dichlorobenzene	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1

Client Sample ID: MF-3(0-5)-121919
Lab Sample ID: 500-175459-17
Date Collected: 12/19/19 12:35
Matrix: Solid
Date Received: 12/20/19 12:30
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.091	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2,4,6-Trichlorophenol	<0.39		0.39	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2,4-Dichlorophenol	<0.39		0.39	0.094	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2,4-Dinitrophenol	<0.80		0.80	0.70	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2,4-Dinitrotoluene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2,6-Dinitrotoluene	<0.20		0.20	0.078	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2-Chloronaphthalene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2-Chlorophenol	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2-Methylnaphthalene	<0.080		0.080	0.0073	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2-Methylphenol	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
2-Nitrophenol	<0.39		0.39	0.094	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
3 & 4 Methylphenol	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
4,6-Dinitro-2-methylphenol	<0.80		0.80	0.32	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
4-Chloro-3-methylphenol	<0.39		0.39	0.14	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
4-Chloroaniline	<0.80		0.80	0.19	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
4-Nitroaniline	<0.39		0.39	0.17	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
4-Nitrophenol	<0.80		0.80	0.38	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Acenaphthene	<0.039		0.039	0.0071	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Anthracene	<0.039		0.039	0.0066	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Benzo[a]anthracene	<0.039		0.039	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Benzo[a]pyrene	<0.039		0.039	0.0077	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Benzo[b]fluoranthene	<0.039		0.039	0.0086	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.073	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Butyl benzyl phthalate	<0.20		0.20	0.076	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Carbazole	<0.20		0.20	0.099	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Chrysene	<0.039		0.039	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0077	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Diethyl phthalate	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Dimethyl phthalate	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Di-n-octyl phthalate	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Fluoranthene	**0.0085**	**J**	0.039	0.0074	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Fluorene	<0.039		0.039	0.0056	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Hexachlorobenzene	<0.080		0.080	0.0092	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Hexachlorocyclopentadiene	<0.80		0.80	0.23	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1

Client Sample ID: MF-3(0-5)-121919
Date Collected: 12/19/19 12:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-17
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Naphthalene	<0.039		0.039	0.0061	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Nitrobenzene	<0.039		0.039	0.0099	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
N-Nitrosodi-n-propylamine	<0.080		0.080	0.049	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
N-Nitrosodiphenylamine	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Pentachlorophenol	<0.80		0.80	0.64	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Phenanthrene	<0.039		0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Phenol	<0.20		0.20	0.088	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1
Pyrene	<0.039		0.039	0.0079	mg/Kg	☼	12/30/19 16:07	12/31/19 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*43*		*31 - 143*	*12/30/19 16:07*	*12/31/19 22:26*	*1*
2-Fluorobiphenyl	*74*		*43 - 145*	*12/30/19 16:07*	*12/31/19 22:26*	*1*
2-Fluorophenol	*76*		*31 - 166*	*12/30/19 16:07*	*12/31/19 22:26*	*1*
Nitrobenzene-d5	*61*		*37 - 147*	*12/30/19 16:07*	*12/31/19 22:26*	*1*
Phenol-d5	*80*		*30 - 153*	*12/30/19 16:07*	*12/31/19 22:26*	*1*
Terphenyl-d14	*93*		*42 - 157*	*12/30/19 16:07*	*12/31/19 22:26*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 20:24	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 05:05	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 20:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 20:24	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:24	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:24	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:24	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 20:24	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	12/30/19 20:24	1
Manganese	**0.34**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 05:05	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:24	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 20:24	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:24	1
Zinc	**0.21**	**J B ***	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 21:18	1
Barium	<0.50		0.50	0.050	mg/L		12/30/19 06:50	12/30/19 21:18	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 21:18	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 21:18	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:18	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:18	1
Copper	**0.011**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:18	1
Iron	**5.4**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 21:18	1
Manganese	**0.018**	**J**	0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:18	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:18	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 21:18	1

Client Sample ID: MF-3(0-5)-121919

Date Collected: 12/19/19 12:35
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-17

Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:18	1
Zinc	<0.50		0.50	0.020	mg/L		12/30/19 06:50	12/30/19 21:18	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.29**	**J**	1.2	0.23	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Arsenic	**8.3**		0.60	0.21	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Barium	**65**		0.60	0.068	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Beryllium	**0.83**		0.24	0.056	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Cadmium	**1.2**		0.12	0.022	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Calcium	**61000**	**B**	120	20	mg/Kg	☼	12/23/19 08:38	12/24/19 14:15	10
Chromium	**19**		0.60	0.30	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Cobalt	**9.6**		0.30	0.079	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Copper	**59**		0.60	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Iron	**21000**	**B**	12	6.2	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Lead	**240**		0.30	0.14	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Magnesium	**29000**		6.0	3.0	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Manganese	**310**	**B**	0.60	0.087	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Nickel	**31**		0.60	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Potassium	**3000**		30	11	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Selenium	**0.80**		0.60	0.35	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Silver	**2.1**		0.30	0.077	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Sodium	**230**		60	8.9	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Thallium	**0.83**		0.60	0.30	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Vanadium	**26**		0.30	0.071	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1
Zinc	**210**		1.2	0.53	mg/Kg	☼	12/23/19 08:38	12/24/19 04:41	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.019	0.0062	mg/Kg	☼	12/27/19 13:40	12/30/19 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**		0.2	0.2	SU			12/26/19 15:02	1

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175459-1

Client Sample ID: MF-2(0-5)-121919
Date Collected: 12/19/19 12:40
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-18
Matrix: Solid
Percent Solids: 81.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0076	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Benzene	<0.0017		0.0017	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Bromodichloromethane	<0.0017		0.0017	0.00036	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Carbon tetrachloride	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Chlorobenzene	<0.0017		0.0017	0.00065	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Chloroform	<0.0017		0.0017	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00049	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,1-Dichloroethane	<0.0017		0.0017	0.00060	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Ethylbenzene	<0.0017		0.0017	0.00084	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Methyl Ethyl Ketone	<0.0044		0.0044	0.0019	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
methyl isobutyl ketone	<0.0044		0.0044	0.0013	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Styrene	<0.0017		0.0017	0.00053	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Tetrachloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Toluene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00078	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00075	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	12/20/19 19:04	12/30/19 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*75 - 131*	*12/20/19 19:04*	*12/30/19 14:33*	*1*
Dibromofluoromethane	*89*		*75 - 126*	*12/20/19 19:04*	*12/30/19 14:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 134*	*12/20/19 19:04*	*12/30/19 14:33*	*1*
Toluene-d8 (Surr)	*88*		*75 - 124*	*12/20/19 19:04*	*12/30/19 14:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1

Client Sample ID: MF-2(0-5)-121919
Date Collected: 12/19/19 12:40
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-18
Matrix: Solid
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Benzo[a]anthracene	**0.014**	**J**	0.039	0.0053	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Benzo[a]pyrene	**0.018**	**J**	0.039	0.0076	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Benzo[b]fluoranthene	**0.025**	**J**	0.039	0.0084	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Benzo[g,h,i]perylene	<0.039		0.039	0.013	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Benzo[k]fluoranthene	<0.039		0.039	0.012	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Carbazole	<0.20		0.20	0.098	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Chrysene	**0.018**	**J**	0.039	0.011	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Dibenz(a,h)anthracene	<0.039		0.039	0.0075	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Fluoranthene	**0.035**	**J**	0.039	0.0072	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1

Client Sample ID: MF-2(0-5)-121919
Date Collected: 12/19/19 12:40
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-18
Matrix: Solid
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039		0.039	0.010	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Phenanthrene	**0.011**	**J**	0.039	0.0054	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1
Pyrene	**0.022**	**J**	0.039	0.0078	mg/Kg	☼	12/30/19 16:07	12/31/19 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*38*		*31 - 143*	*12/30/19 16:07*	*12/31/19 22:51*	*1*
2-Fluorobiphenyl	*68*		*43 - 145*	*12/30/19 16:07*	*12/31/19 22:51*	*1*
2-Fluorophenol	*70*		*31 - 166*	*12/30/19 16:07*	*12/31/19 22:51*	*1*
Nitrobenzene-d5	*56*		*37 - 147*	*12/30/19 16:07*	*12/31/19 22:51*	*1*
Phenol-d5	*67*		*30 - 153*	*12/30/19 16:07*	*12/31/19 22:51*	*1*
Terphenyl-d14	*90*		*42 - 157*	*12/30/19 16:07*	*12/31/19 22:51*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:48	12/30/19 20:28	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		12/30/19 06:48	01/01/20 05:09	1
Beryllium	<0.0040	* ^	0.0040	0.0040	mg/L		12/30/19 06:48	12/30/19 20:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:48	12/30/19 20:28	1
Chromium	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:28	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:28	1
Copper	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:28	1
Iron	<0.40	* ^	0.40	0.20	mg/L		12/30/19 06:48	12/30/19 20:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/30/19 06:48	01/01/20 05:09	1
Manganese	**0.17**		0.025	0.010	mg/L		12/30/19 06:48	01/01/20 05:09	1
Nickel	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:28	1
Selenium	<0.050	*	0.050	0.020	mg/L		12/30/19 06:48	12/30/19 20:28	1
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:48	12/30/19 20:28	1
Zinc	<0.50	*	0.50	0.020	mg/L		12/30/19 06:48	12/30/19 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/30/19 06:50	12/30/19 21:22	1
Barium	**0.12**	**J**	0.50	0.050	mg/L		12/30/19 06:50	12/30/19 21:22	1
Beryllium	<0.0040	^	0.0040	0.0040	mg/L		12/30/19 06:50	12/30/19 21:22	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/30/19 06:50	12/30/19 21:22	1
Chromium	**0.037**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:22	1
Cobalt	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:22	1
Copper	**0.025**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:22	1
Iron	**25**		0.40	0.20	mg/L		01/07/20 06:16	01/08/20 10:53	1
Lead	**0.020**		0.0075	0.0075	mg/L		12/30/19 06:50	12/30/19 21:22	1
Manganese	**0.088**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:22	1
Nickel	**0.026**		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:22	1
Selenium	<0.050		0.050	0.020	mg/L		12/30/19 06:50	12/30/19 21:22	1

Client Sample ID: MF-2(0-5)-121919

Date Collected: 12/19/19 12:40
Date Received: 12/20/19 12:30

Lab Sample ID: 500-175459-18

Matrix: Solid
Percent Solids: 81.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		12/30/19 06:50	12/30/19 21:22	1
Zinc	**0.12**	**J**	0.50	0.020	mg/L		12/30/19 06:50	12/30/19 21:22	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.22	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Arsenic	**5.9**		0.57	0.19	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Barium	**82**		0.57	0.065	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Beryllium	**0.80**		0.23	0.053	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Cadmium	**0.43**		0.11	0.021	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Calcium	**47000**	**B**	110	19	mg/Kg	☼	12/23/19 08:38	12/24/19 14:19	10
Chromium	**20**		0.57	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Cobalt	**8.8**		0.28	0.075	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Copper	**30**		0.57	0.16	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Iron	**19000**	**B**	11	5.9	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Lead	**250**		0.28	0.13	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Magnesium	**22000**		5.7	2.8	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Manganese	**260**	**B**	0.57	0.083	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Nickel	**25**		0.57	0.17	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Potassium	**2300**		28	10	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Selenium	**0.56**	**J**	0.57	0.33	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Silver	**2.2**		0.28	0.073	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Sodium	**190**		57	8.4	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Thallium	**0.78**		0.57	0.28	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Vanadium	**26**		0.28	0.067	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1
Zinc	**110**		1.1	0.50	mg/Kg	☼	12/23/19 08:38	12/24/19 04:45	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 10:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/30/19 11:30	12/31/19 11:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.056**		0.019	0.0063	mg/Kg	☼	12/27/19 13:40	12/30/19 11:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**		0.2	0.2	SU			12/26/19 15:08	1

Definitions/Glossary

Client: Weston Solutions, Inc. Job ID: 500-175459-1
Project/Site: IDOT - Forest Park - WO 071

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Job ID: 500-175459-1
Project/Site: IDOT - Forest Park - WO 071

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica

THE LEADER IN ENVIRONMENTAL

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

500-175459 COC

Chain of Custody Record

Lab Job #: 500-175459

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 5.4, 4.6, 5.3, 1.6

Report To (optional)	Bill To (optional)
Contact: Andris Slesers	Contact:
Company: Weston Solutions, Inc.	Company:
Address:	Address:
Address:	Address:
Phone: 773-230-1771	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston Solutions, Inc.	02056. .071
Project Name: wsp IDOT Forest Park/Maywood Area	
Project Location/State: Forest Park/Maywood, IL	Lab Project #
Sampler: M. Taylor O.	Lab PM: Richard Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs	SVOCs	Total Metals	TCLP/SPLP Metals	PAH	Comments
1		MM-2(0-5)-121919	12/19/19	0855	6	S		x	x	x	x	x	
2		MM-1(0-5)-121919		0915									
3		MM-1(0-5)-121919D		0915									
4		MM-3(0-5)-121919		0950									
5		MM-4(0-5)-121919		1000									
6		MM-5(0-5)-121919		1015									
7		MM-7(0-5)-121919		1025									
8		MM-7(5-10)-121919		1030									
9		MM-7(10-15)-121919		1040									
10		MM-7(15-22)-121919		1050									

Elmhurst
503325

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Weston	12/19/19	1830	[signature]	[signature]	12-20-19	1830
[signature]	Weston	12-20-19	0900	[signature]	TA	12/20/19	930
[signature]	TA	12/20/19	1230	[signature]	TA-CHI	12/20/19	1230

Lab Courier: TD
Shipped:
Hand Delivered:

Matrix Key

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

Client Comments:

Lab Comments:
5.4, 4.6, 5.3, 1.6
4 8qt 4 8qt 4 8qt 4 4qt.

TAL-4124-500 (1209)

1/8/2020

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Chain of Custody Record

Lab Job #: 500-175459

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler:

(optional) Report To	(optional) Bill To
Contact: Andvis Sleseys	Contact:
Company: Weston Solutions, Inc.	Company:
Address:	Address:
Address:	Address:
Phone: 772-230-1771	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client	Client Project #
Weston Solutions, Inc.	02056. .071
Project Name	
IDOT Forest Park / Maywood Area	
Project Location/State	**Lab Project #**
Forest Park / Maywood, IL	
Sampler	**Lab PM**
Max D. + Taylor O.	Richard Wright

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

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs	SVOCs	Total metals	TCLP/SPLP metals	pH	Comments
11		MW-6 (0-5)-121919	12/19/19	1105	6	S		x	x	x	x	x	
12		MW-6 (5-10)-121919		1115									
13		MW-6 (10-15)-121919		1130									
14		MW-6 (15-22)-121919		1135									
15		MW-8 (0-5)-121919		1200									
16		MW-8 (0-5)-121919D		1200									
17		MF-3 (0-5)-121919		1235									
18		MF-2 (0-5)-121919		1240									
19		MF-1 (0-5)-121919		1255									
20		MF-1 (5-10)-121919		1310									

Elmhurst

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

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

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	Weston	12/19/19	1830	T. Wally	Weston	12-19-19	1830
T. Wally	Weston	12-20-19	0900		TA	12/20/19	0900
	TA	12/20/19	1230	Alan Scott	TA-CHI	12/20/19	1230

Lab Courier: TA
Shipped:
Hand Delivered:

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

Client Comments

Lab Comments:

TAL-4124-500 (1209)

1/8/2020

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 372: Roosevelt Road and 17th Avenue Office Phone Number, if available:

Physical Site Location (address, including number and street):
1600 W Roosevelt Road (ISGS SITE NO. 2684V-1)

City: Broadview 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: 41.86393 (Decimal Degrees) Longitude: -87.85289 (-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.): 22

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.

Project Name: FAP 372: Roosevelt Road and 17th Avenue Latitude: 41.86393 Longitude: - 87.85289

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 WP-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2684V-1. SEE FIGURE 3-2 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-175471-1.
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, 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:

Licensed Professional Engineer or
Licensed Professional Geologist Signature:

27 February 2020
Date:

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

LICENSED PROFESSIONAL GEOLOGIST
MICHAEL A. CASTILLO
196.001276
ILLINOIS

Summary Table of ISGS Site No. 2684V-1
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	WP-1	Soil Reference Concentrations[A]
Sample Date	12/20/2019	
Field Sample ID	WP-1(0-5)-122019	
Lab Sample ID	500-175471-10	
ISGS Site Number	2684V-1	
Parameters		
Laboratory pH (s.u.)	8.1	<6.25, >9.0
VOCs (mg/kg)		
Acetone	0.03	25
Chloroform	0.0023	0.3
Methyl ethyl ketone	0.0044	---
SVOCs (mg/kg)		
Benzo(a)anthracene	0.0061 J	0.9 / 1.1 / 1.8
Benzo(a)pyrene	0.0097 J	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	0.015 J	0.9 / 1.5 / 2.1
Fluoranthene	0.017 J	3100
Phenanthrene	0.0083 J	---
Pyrene	0.016 J	2300
Total Metals (mg/kg)		
Antimony, Total	0.88 J	5
Arsenic, Total	9.5	11.3 / 13
Barium, Total	79	1500
Beryllium, Total	0.83	22
Calcium, Total	13000	---
Chromium, Total	21	21
Cobalt, Total	17	20
Copper, Total	22	2900
Iron, Total	21000	15000 / 15900
Lead, Total	15	107
Magnesium, Total	11000	325000
Manganese, Total	310	630 / 636
Mercury, Total	0.023	0.89
Nickel, Total	38	100
Potassium, Total	2400	---
Selenium, Total	ND	1.3
Silver, Total	4	4.4
Sodium, Total	410	---
Thallium, Total	2.9	2.6
Vanadium, Total	31	550
Zinc, Total	61	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.59	2
Beryllium, TCLP	ND	0.004
Chromium, TCLP	ND	0.1
Cobalt, TCLP	0.025	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	5.2	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	0.013 J	0.1
Selenium, TCLP	0.02 J	0.05
Silver, TCLP	ND	0.05
Thallium, TCLP	ND	0.002
Zinc, TCLP	ND	5
SPLP Metals (mg/l)		
Arsenic, SPLP	ND	0.05
Barium, SPLP	0.11 J	2
Beryllium, SPLP	ND	0.004
Chromium, SPLP	0.024 J	0.1
Cobalt, SPLP	ND	1
Copper, SPLP	0.02 J	0.65
Iron, SPLP	18 J	5
Lead, SPLP	0.014	0.0075
Manganese, SPLP	0.17	0.15
Mercury, SPLP	ND	0.002
Nickel, SPLP	0.021 J	0.1
Selenium, SPLP	ND	0.05
Silver, SPLP	ND	0.05
Thallium, SPLP	ND	0.002
Zinc, SPLP	ND	5

Notes:

--- - not applicable or value not available.

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

J - Estimated concentration.

ND - Constituent not detected above the reporting limit.

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-175471-1
Client Project/Site: IDOT - Forest Park - WO 071

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

Attn: Mr. Andris Slesers

Authorized for release by:
1/9/2020 5:29:26 PM

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

Client Sample ID: WP-1(0-5)-122019

Date Collected: 12/20/19 10:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-10

Matrix: Solid
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.030**		0.017	0.0072	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Bromoform	<0.0017		0.0017	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Bromomethane	<0.0041		0.0041	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Carbon disulfide	<0.0041		0.0041	0.00086	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Chloroform	**0.0023**		0.0017	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Chloromethane	<0.0041	*	0.0041	0.0017	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00046	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Ethylbenzene	<0.0017		0.0017	0.00079	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Methyl Ethyl Ketone	**0.0044**		0.0041	0.0018	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
methyl isobutyl ketone	<0.0041		0.0041	0.0012	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Tetrachloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00073	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Vinyl chloride	<0.0017		0.0017	0.00073	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	12/21/19 11:25	12/30/19 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 131*	*12/21/19 11:25*	*12/30/19 15:41*	*1*
Dibromofluoromethane	*93*		*75 - 126*	*12/21/19 11:25*	*12/30/19 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 134*	*12/21/19 11:25*	*12/30/19 15:41*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*	*12/21/19 11:25*	*12/30/19 15:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.043	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1

Client Sample ID: WP-1(0-5)-122019
Date Collected: 12/20/19 10:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-10
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.056	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
3-Nitroaniline	<0.40		0.40	0.12	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Acenaphthene	<0.040		0.040	0.0072	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Benzo[a]anthracene	**0.0061**	**J**	0.040	0.0054	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Benzo[a]pyrene	**0.0097**	**J**	0.040	0.0078	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Benzo[b]fluoranthene	**0.015**	**J**	0.040	0.0087	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Benzo[g,h,i]perylene	<0.040		0.040	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Benzo[k]fluoranthene	<0.040		0.040	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.060	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Chrysene	<0.040		0.040	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Fluoranthene	**0.017**	**J**	0.040	0.0075	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Hexachlorobenzene	<0.081		0.081	0.0093	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1

Client Sample ID: WP-1(0-5)-122019
Date Collected: 12/20/19 10:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-10
Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Phenanthrene	**0.0083**	**J**	0.040	0.0056	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Phenol	<0.20		0.20	0.089	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1
Pyrene	**0.016**	**J**	0.040	0.0080	mg/Kg	☼	12/30/19 20:19	01/07/20 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*108*		*31 - 143*	*12/30/19 20:19*	*01/07/20 23:16*	*1*
2-Fluorobiphenyl	*83*		*43 - 145*	*12/30/19 20:19*	*01/07/20 23:16*	*1*
2-Fluorophenol	*126*		*31 - 166*	*12/30/19 20:19*	*01/07/20 23:16*	*1*
Nitrobenzene-d5	*90*		*37 - 147*	*12/30/19 20:19*	*01/07/20 23:16*	*1*
Phenol-d5	*103*		*30 - 153*	*12/30/19 20:19*	*01/07/20 23:16*	*1*
Terphenyl-d14	*120*		*42 - 157*	*12/30/19 20:19*	*01/07/20 23:16*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:43	01/06/20 15:45	1
Barium	**0.59**		0.50	0.050	mg/L		01/02/20 15:43	01/06/20 15:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 15:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 15:45	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:45	1
Cobalt	**0.025**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:45	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:45	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 15:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 15:45	1
Manganese	**5.2**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:45	1
Nickel	**0.013**	**J**	0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:45	1
Selenium	**0.020**	**J ***	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 15:45	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:45	1
Zinc	**0.027**	**J B ***	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/02/20 15:40	01/07/20 00:23	1
Barium	**0.11**	**J**	0.50	0.050	mg/L		01/02/20 15:40	01/07/20 00:23	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:40	01/07/20 00:23	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/07/20 00:23	1
Chromium	**0.024**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:23	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:23	1
Copper	**0.020**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:23	1
Iron	**18**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/07/20 00:23	1
Lead	**0.014**		0.0075	0.0075	mg/L		01/02/20 15:40	01/07/20 00:23	1
Manganese	**0.17**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:23	1
Nickel	**0.021**	**J**	0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:23	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/07/20 00:23	1

Client Sample ID: WP-1(0-5)-122019

Date Collected: 12/20/19 10:30
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-10

Matrix: Solid
Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:23	1
Zinc	**0.045**	**J B**	0.50	0.020	mg/L		01/02/20 15:40	01/07/20 00:23	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.88**	**J**	1.2	0.23	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Arsenic	**9.5**		0.59	0.20	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Barium	**79**		0.59	0.068	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Beryllium	**0.83**		0.24	0.055	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Cadmium	<0.12		0.12	0.021	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Calcium	**13000**		12	2.0	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Chromium	**21**		0.59	0.29	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Cobalt	**17**		0.30	0.078	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Copper	**22**		0.59	0.17	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Iron	**21000**		12	6.2	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Lead	**15**		0.30	0.14	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Magnesium	**11000**		5.9	2.9	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Manganese	**310**		0.59	0.086	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Nickel	**38**		0.59	0.17	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Potassium	**2400**		30	10	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Selenium	<0.59		0.59	0.35	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Silver	**4.0**		0.30	0.077	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Sodium	**410**		59	8.8	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Thallium	**2.9**		0.59	0.30	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Vanadium	**31**		0.30	0.070	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1
Zinc	**61**		1.2	0.52	mg/Kg	☼	12/24/19 06:51	12/26/19 17:13	1

Method: 6020A - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/02/20 15:43	01/06/20 13:04	1

Method: 6020A - Metals (ICP/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020	0.0020	mg/L		01/02/20 15:40	01/07/20 12:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.023**		0.020	0.0065	mg/Kg	☼	12/27/19 13:40	12/30/19 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**		0.2	0.2	SU			12/27/19 13:09	1

Definitions/Glossary

Client: Weston Solutions, Inc. Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 374567

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8

Client Contact	Project Manager: Andrius Sleseva	Site Contact: Richard Wright	Date:	COC No:
Company Name: Weston Solutions, Inc.	Tel/Email: 773-230-1771	Lab Contact: Richard Wright	Carrier:	_____ of _____ COCs
Address: 300 Plaza Circle Ste. 202	Analysis Turnaround Time			Sampler:
City/State/Zip: Mundelein, IL 60031	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 406-425-2072	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: IDoT Forest Park/Maywood Area	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.: 500-175471
P O #	☐ 1 day			

500-175471 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PH	Sample Specific Notes:
1	PB-2 (0-5)-122019	12/20/19	0825	C	S	6			x	x	x	x	x	
2	PB-2 (5-10)-122019		0835											
3	PB-2 (5-10)-122019D		0835											
4	PB-2 (10-15)-122019		0845											
5	PB-1 (0-5)-122019		0900											
6	PB-1 (5-10)-122019		0910											
7	PB-1 (10-15)-122019		0915											
8	FF-1 (0-5)-122019		0930											
9	NT-1 (0-5)-122019		1015											
10	WP-1 (0-5)-122019		1030											

Elmhurst

503325

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 5.8; 4.7 Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Weston	12/20 @ 1420	Received by:		
Relinquished by:		12/20/19	Received by:	TA	12/20/19 1430
Relinquished by:	TA 1608	12/20/19	Received in Laboratory by:	TA CHI	12/20/19 1608

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 372: Roosevelt Road and 17th Avenue Office Phone Number, if available:

Physical Site Location (address, including number and street):
1700 W. Roosevelt Road (ISGS SITE NO. 2684V-3)

City: Broadview 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: 41.8639 (Decimal Degrees) Longitude: -87.85312 (-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.): 25

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 NT-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 2684V-3. SEE FIGURE 3-2 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-175471-1.
ALSO SEE FIGURE 4-2 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

I, 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.

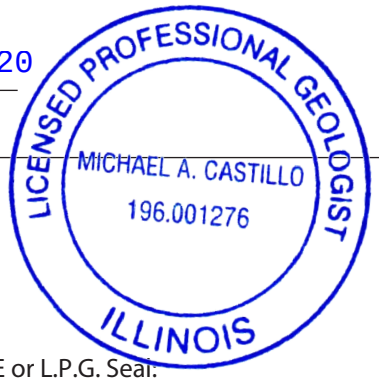
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

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:

27 February 2020
Date:



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

Summary Table of ISGS Site No. 2684V-3
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Illinois Department of Transportation
FAP 372 (IL Route 171): 1st Avenue at Roosevelt Road and 17th Avenue
Forest Park, Maywood, and Broadview, Cook County, Illinois

Location	NT-1	Soil Reference Concentrations[A]
Sample Date	12/20/2019	
Field Sample ID	NT-1(0-5)-122019	
Lab Sample ID	500-175471-9	
ISGS Site Number	2684V-3	
Parameters		
Laboratory pH (s.u.)	8.6	<6.25, >9.0
VOCs (mg/kg)		
Acetone	0.025	25
SVOCs (mg/kg)		
Benzo(a)anthracene	0.019 J	0.9 / 1.1 / 1.8
Benzo(a)pyrene	0.025 J	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	0.041	0.9 / 1.5 / 2.1
Benzo(g,h,i)perylene	0.014 J	---
Benzo(k)fluoranthene	0.019 J	9
Chrysene	0.027 J	88
Fluoranthene	0.05	3100
Indeno(1,2,3-cd)pyrene	0.016 J	0.9 / 0.9 / 1.6
Phenanthrene	0.024 J	---
Pyrene	0.044	2300
Total Metals (mg/kg)		
Antimony, Total	0.62 J	5
Arsenic, Total	5.5	11.3 / 13
Barium, Total	140	1500
Beryllium, Total	0.52	22
Cadmium, Total	0.066 J	5.2
Calcium, Total	4100	---
Chromium, Total	15	21
Cobalt, Total	7.7	20
Copper, Total	21	2900
Iron, Total	13000	15000 / 15900
Lead, Total	16	107
Magnesium, Total	2500	325000
Manganese, Total	620	630 / 636
Mercury, Total	0.025	0.89
Nickel, Total	14	100
Potassium, Total	1500	---
Silver, Total	3	4.4
Sodium, Total	1400	---
Thallium, Total	1.8	2.6
Vanadium, Total	27	550
Zinc, Total	56	5100
TCLP Metals (mg/l)		
Arsenic, TCLP	ND	0.05
Barium, TCLP	0.38 J	2
Beryllium, TCLP	ND	0.004
Cadmium, TCLP	ND	0.005
Chromium, TCLP	ND	0.1
Cobalt, TCLP	ND	1
Copper, TCLP	ND	0.65
Iron, TCLP	ND	5
Lead, TCLP	ND	0.0075
Manganese, TCLP	0.79	0.15
Mercury, TCLP	ND	0.002
Nickel, TCLP	ND	0.1
Silver, TCLP	ND	0.05
Zinc, TCLP	ND	5
SPLP Metals (mg/l)		
Arsenic, SPLP	0.065	0.05
Barium, SPLP	0.95	2
Beryllium, SPLP	0.01	0.004
Cadmium, SPLP	ND	0.005
Chromium, SPLP	0.28	0.1
Cobalt, SPLP	0.087	1
Copper, SPLP	0.21	0.65
Iron, SPLP	240 B	5
Lead, SPLP	0.14	0.0075
Manganese, SPLP	1	0.15
Mercury, SPLP	0.00031	0.002
Nickel, SPLP	0.27	0.1
Silver, SPLP	0.02 J	0.05
Zinc, SPLP	0.81 B	5

Notes:

--- - not applicable or value not available.

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

B - Constituent detected in the laboratory blank and investigative samples.

J - Estimated concentration.

ND - Constituent not detected above the reporting limit.

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 500-175471-1
Client Project/Site: IDOT - Forest Park - WO 071

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

Attn: Mr. Andris Slesers

Authorized for release by:
1/9/2020 5:29:26 PM

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

Client: Weston Solutions, Inc.
Project/Site: IDOT - Forest Park - WO 071

Job ID: 500-175471-1

Client Sample ID: NT-1(0-5)-122019
Date Collected: 12/20/19 10:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-9
Matrix: Solid
Percent Solids: 78.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.025		0.019	0.0082	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Carbon tetrachloride	<0.0019		0.0019	0.00054	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Methyl Ethyl Ketone	<0.0047		0.0047	0.0021	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
methyl isobutyl ketone	<0.0047		0.0047	0.0014	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	☼	12/21/19 11:25	12/31/19 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*75 - 131*	*12/21/19 11:25*	*12/31/19 11:08*	*1*
Dibromofluoromethane	*91*		*75 - 126*	*12/21/19 11:25*	*12/31/19 11:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 134*	*12/21/19 11:25*	*12/31/19 11:08*	*1*
Toluene-d8 (Surr)	*82*		*75 - 124*	*12/21/19 11:25*	*12/31/19 11:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
1,2-Dichlorobenzene	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
1,3-Dichlorobenzene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
1,4-Dichlorobenzene	<0.20		0.20	0.052	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1

Client Sample ID: NT-1(0-5)-122019
Date Collected: 12/20/19 10:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-9
Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.40		0.40	0.092	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2,4,6-Trichlorophenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2,4-Dichlorophenol	<0.40		0.40	0.096	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2,4-Dimethylphenol	<0.40		0.40	0.15	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2,4-Dinitrophenol	<0.81		0.81	0.71	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2,4-Dinitrotoluene	<0.20		0.20	0.064	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2,6-Dinitrotoluene	<0.20		0.20	0.079	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2-Chloronaphthalene	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2-Chlorophenol	<0.20		0.20	0.069	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2-Methylnaphthalene	<0.081		0.081	0.0074	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2-Methylphenol	<0.20		0.20	0.065	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2-Nitroaniline	<0.20		0.20	0.054	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
2-Nitrophenol	<0.40		0.40	0.095	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
3 & 4 Methylphenol	<0.20		0.20	0.067	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.057	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
3-Nitroaniline	<0.40		0.40	0.13	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
4,6-Dinitro-2-methylphenol	<0.81		0.81	0.32	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
4-Chloro-3-methylphenol	<0.40		0.40	0.14	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
4-Chloroaniline	<0.81		0.81	0.19	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
4-Nitroaniline	<0.40		0.40	0.17	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
4-Nitrophenol	<0.81		0.81	0.38	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Acenaphthene	<0.040		0.040	0.0073	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Acenaphthylene	<0.040		0.040	0.0053	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Anthracene	<0.040		0.040	0.0067	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Benzo[a]anthracene	**0.019**	**J**	0.040	0.0054	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Benzo[a]pyrene	**0.025**	**J**	0.040	0.0078	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Benzo[b]fluoranthene	**0.041**		0.040	0.0087	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Benzo[g,h,i]perylene	**0.014**	**J**	0.040	0.013	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Benzo[k]fluoranthene	**0.019**	**J**	0.040	0.012	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.041	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.074	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Butyl benzyl phthalate	<0.20		0.20	0.077	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Carbazole	<0.20		0.20	0.10	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Chrysene	**0.027**	**J**	0.040	0.011	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Dibenz(a,h)anthracene	<0.040		0.040	0.0078	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Dibenzofuran	<0.20		0.20	0.047	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Diethyl phthalate	<0.20		0.20	0.068	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Dimethyl phthalate	<0.20		0.20	0.053	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Di-n-butyl phthalate	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Di-n-octyl phthalate	<0.20		0.20	0.066	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Fluoranthene	**0.050**		0.040	0.0075	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Fluorene	<0.040		0.040	0.0057	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Hexachlorobenzene	<0.081		0.081	0.0094	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Hexachlorobutadiene	<0.20		0.20	0.063	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Hexachlorocyclopentadiene	<0.81		0.81	0.23	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Hexachloroethane	<0.20		0.20	0.061	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1

Client Sample ID: NT-1(0-5)-122019

Date Collected: 12/20/19 10:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-9

Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**0.016**	**J**	0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Isophorone	<0.20		0.20	0.045	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Naphthalene	<0.040		0.040	0.0062	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Nitrobenzene	<0.040		0.040	0.010	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
N-Nitrosodi-n-propylamine	<0.081		0.081	0.049	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
N-Nitrosodiphenylamine	<0.20		0.20	0.048	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Pentachlorophenol	<0.81		0.81	0.65	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Phenanthrene	**0.024**	**J**	0.040	0.0056	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Phenol	<0.20		0.20	0.090	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1
Pyrene	**0.044**		0.040	0.0080	mg/Kg	☼	12/30/19 20:19	01/07/20 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*31 - 143*	*12/30/19 20:19*	*01/07/20 22:47*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*12/30/19 20:19*	*01/07/20 22:47*	*1*
2-Fluorophenol	*123*		*31 - 166*	*12/30/19 20:19*	*01/07/20 22:47*	*1*
Nitrobenzene-d5	*89*		*37 - 147*	*12/30/19 20:19*	*01/07/20 22:47*	*1*
Phenol-d5	*97*		*30 - 153*	*12/30/19 20:19*	*01/07/20 22:47*	*1*
Terphenyl-d14	*119*		*42 - 157*	*12/30/19 20:19*	*01/07/20 22:47*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050	F1	0.050	0.010	mg/L		01/02/20 15:43	01/06/20 15:28	1
Barium	**0.38**	**J**	0.50	0.050	mg/L		01/02/20 15:43	01/06/20 15:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/02/20 15:43	01/06/20 15:28	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:43	01/06/20 15:28	1
Chromium	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:28	1
Cobalt	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:28	1
Copper	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:28	1
Iron	<0.40		0.40	0.20	mg/L		01/02/20 15:43	01/06/20 15:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/02/20 15:43	01/06/20 15:28	1
Manganese	**0.79**		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:28	1
Nickel	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:28	1
Selenium	<0.050	* F1	0.050	0.020	mg/L		01/02/20 15:43	01/06/20 15:28	1
Silver	<0.025		0.025	0.010	mg/L		01/02/20 15:43	01/06/20 15:28	1
Zinc	**0.26**	**J B * F1**	0.50	0.020	mg/L		01/02/20 15:43	01/06/20 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.065**		0.050	0.010	mg/L		01/02/20 15:40	01/07/20 00:19	1
Barium	**0.95**		0.50	0.050	mg/L		01/02/20 15:40	01/07/20 00:19	1
Beryllium	**0.010**		0.0040	0.0040	mg/L		01/02/20 15:40	01/07/20 00:19	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/02/20 15:40	01/07/20 00:19	1
Chromium	**0.28**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:19	1
Cobalt	**0.087**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:19	1
Copper	**0.21**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:19	1
Iron	**240**	**B**	0.40	0.20	mg/L		01/02/20 15:40	01/07/20 00:19	1
Lead	**0.14**		0.0075	0.0075	mg/L		01/02/20 15:40	01/07/20 00:19	1
Manganese	**1.0**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:19	1
Nickel	**0.27**		0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:19	1
Selenium	<0.050		0.050	0.020	mg/L		01/02/20 15:40	01/07/20 00:19	1

Client Sample ID: NT-1(0-5)-122019

Date Collected: 12/20/19 10:15
Date Received: 12/20/19 16:08

Lab Sample ID: 500-175471-9

Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.020	J	0.025	0.010	mg/L		01/02/20 15:40	01/07/20 00:19	1
Zinc	0.81	B	0.50	0.020	mg/L		01/02/20 15:40	01/07/20 00:19	1

Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.62	J	1.3	0.25	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Arsenic	5.5		0.63	0.22	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Barium	140		0.63	0.072	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Beryllium	0.52		0.25	0.059	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Cadmium	0.066	J	0.13	0.023	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Calcium	4100		13	2.1	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Chromium	15		0.63	0.31	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Cobalt	7.7		0.32	0.083	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Copper	21		0.63	0.18	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Iron	13000		13	6.6	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Lead	16		0.32	0.15	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Magnesium	2500		6.3	3.1	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Manganese	620		0.63	0.091	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Nickel	14		0.63	0.18	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Potassium	1500		32	11	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Selenium	<0.63		0.63	0.37	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Silver	3.0		0.32	0.081	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Sodium	1400		63	9.3	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Thallium	1.8		0.63	0.31	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Vanadium	27		0.32	0.074	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1
Zinc	56		1.3	0.55	mg/Kg	☼	12/24/19 06:51	12/26/19 17:09	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00031		0.00020	0.00020	mg/L		01/06/20 10:40	01/07/20 11:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.021	0.0069	mg/Kg	☼	12/27/19 13:40	12/30/19 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.6		0.2	0.2	SU			12/27/19 13:03	1

Definitions/Glossary

Client: Weston Solutions, Inc. Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Weston Solutions, Inc.
Job ID: 500-175471-1
Project/Site: IDOT - Forest Park - WO 071

Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	04-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3010A	Solid	Thallium
7470A	7470A	Solid	Mercury
8260B	5035	Solid	1,3-Dichloropropene, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Chain of Custody Record 374567

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8

Client Contact	Project Manager: Andrius Sleseva	Site Contact: Richard Wright	Date:	COC No:
Company Name: Weston Solutions, Inc.	Tel/Email: 773-230-1771	Lab Contact: Richard Wright	Carrier:	_____ of _____ COCs
Address: 300 Plaza Circle Ste. 202	Analysis Turnaround Time			Sampler:
City/State/Zip: Mundelein, IL 60031	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 406-425-2072	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: IDoT Forest Park/Maywood Area	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.: 500-175471
P O #	☐ 1 day			

500-175471 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs	SVOCs	Total metals	TCLP/SPLP metals	PH	Sample Specific Notes:
1	PB-2 (0-5)-122019	12/20/19	0825	C	S	6			x	x	x	x	x	
2	PB-2 (5-10)-122019		0835											
3	PB-2 (5-10)-122019D		0835											
4	PB-2 (10-15)-122019		0845											
5	PB-1 (0-5)-122019		0900											
6	PB-1 (5-10)-122019		0910											
7	PB-1 (10-15)-122019		0915											
8	FF-1 (0-5)-122019		0930											
9	NT-1 (0-5)-122019		1015											
10	WP-1 (0-5)-122019		1030											

Elmhurst

503325

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 5.8; 4.7 Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Weston	12/20 @ 1420	Received by:		
Relinquished by:		12/20/19	Received by:	TA	12/20/19 1430
Relinquished by:	TA 1608	12/20/19	Received in Laboratory by:	TA CHI	12/20/19 1608