



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 0303 - IL 173 Office Phone Number, if available: _____

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

Mokeler Creek: 19800 Block of IL 173 (SILR Nos. 4431-4 through 4431-6)

City: Alden Township State: IL Zip Code: _____

County: McHenry Township: _____

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

Latitude: 42.43008 Longitude: - 88.57915
(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 63

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 IL173-1 AND IL173-2 WERE SAMPLED ADJACENT TO SILR SITE NOS. 4431-4 THROUGH 4431-6. SEE FIGURE 3-1, AND TABLE 4-1 OF THE 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 REPORTS - JOB ID: 500-227215-1. ALSO SEE FIGURE 4-1 OF THE 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 Knightsbridge Parkway; Suite 360
 City: Lincolnshire State: IL Zip Code: 60069
 Phone: (224) 864-7200

Michael A. Castillo, P.G.

Printed Name:

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

25 January 2023

Date:



Summary Table - IL-173
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Alden Township and Crystal Lake,
McHenry County, Illinois

Location		IL173-1	IL173-1	IL173-2	IL173-2	IL173-2
Field Sample ID	Reference Concentrations (MAC Table)	IL173-1(0-5)-122122	IL173-1(5-11)-122122	IL173-2(0-5)-122122	IL173-2(5-11)-122122	IL173-2(5-11)-122122D
Sample Date		12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
ISGS Site No.		N/A	N/A	N/A	N/A	N/A
Lab Sample ID		4431-4 and 4431-5	4431-4 and 4431-5	4431-4 and 4431-6	4431-4 and 4431-6	4431-4 and 4431-6
Laboratory pH	<6.25, >9.0	7.7	7.6	8.5	8.7	8.3
VOCs						
Acetone	25	0.057	ND	ND	ND	ND
Methyl ethyl ketone	--- / ---	0.014	ND	ND	ND	ND
Toluene	12	0.0015 J	0.0015 J	ND	0.0013 J	0.00067 J
SVOCs (mg/kg)						
2-Methylnaphthalene	---	0.0095 J	ND	0.0081 J	ND	ND
Acenaphthene	570	0.0079 J	ND	ND	ND	ND
Anthracene	12000	0.042	0.032 J	0.0088 J	0.031 J	0.03 J
Benzo(a)anthracene	0.9 / 1.1 / 1.8	0.036 J	ND	0.039	ND	ND
Benzo(a)pyrene	0.09 / 1.3 / 2.1	0.043	ND	0.037	ND	ND
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	0.055	ND	0.047	ND	ND
Benzo(g,h,i)perylene	---	0.018 J	ND	0.023 J	ND	ND
Benzo(k)fluoranthene	9	0.023 J	ND	0.017 J	ND	ND
Chrysene	88	0.045	ND	0.047	ND	ND
Fluoranthene	3100	0.074	0.015 J	0.068	0.011 J	0.013 J
Fluorene	560	0.041 J	0.034 J	ND	0.032 J	0.032 J
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	0.021 J	ND	0.024 J	ND	ND
Naphthalene	1.8	ND	ND	0.0061 J	ND	ND
Phenanthrene	---	0.064	0.035 J	0.047	0.032 J	0.032 J
Pyrene	2300	0.073	ND	0.078	ND	ND
Total Inorganics (mg/kg)						
Aluminum, Total	---	15000	7700	6000	3400	3200
Antimony, Total	5	ND	0.31 J	0.23 J	ND	ND
Arsenic, Total	11.3 / 13.0	6.9	7.4	3.3 J	1.3	0.78
Barium, Total	1500	98	45	45	18	17
Beryllium, Total	22	0.79	0.57	0.45	0.28	0.28
Cadmium, Total	5.2	0.16	0.11	0.28	0.063 J	0.067 J
Calcium, Total	---	12000	55000	63000 J	83000	81000
Chromium, Total	21	17	12	9.7	5.5	5.3
Cobalt, Total	20	11	7.3	4.4	2.6	2.4
Copper, Total	2900	18 B	11 B	14 J	6.6 B	6.6 B
Iron, Total	15000 / 15900	18000 B	17000 B	9800 B	6000 B	6000 B
Lead, Total	107	24	5.8	62	2.9	2.7
Magnesium, Total	325000	5300 B	29000 B	28000 B	40000 B	39000 B
Manganese, Total	630 / 636	180	550	290	130	120
Mercury, Total	0.89	0.11	0.015 J	0.028	0.0067 J	ND
Nickel, Total	100	21	15	11 J	6.5	6.3
Potassium, Total	---	1100	1200	770 J	780	760
Selenium, Total	1.3	ND	ND	ND	ND	ND
Silver, Total	4.4	0.46	0.2 J	0.16 J	0.14 J	0.12 J
Sodium, Total	---	1500	620	600	200	190
Thallium, Total	2.6	ND	ND	ND	ND	0.3 J
Vanadium, Total	550	34	18	19	10	8.9
Zinc, Total	5100	64	22	73 J	12	12
TCLP Metals (mg/l)						
Arsenic, TCLP	0.05	ND	ND	ND	ND	ND
Barium, TCLP	2	0.73	0.24 J	0.43 J	0.32 J	0.2 J
Beryllium, TCLP	0.004	ND	ND	ND	ND	ND
Cadmium, TCLP	0.005	0.0024 J	ND	ND	ND	ND
Chromium, TCLP	0.1	ND	ND	ND	ND	ND
Cobalt, TCLP	1	0.03	ND	ND	ND	0.026
Copper, TCLP	0.65	ND	ND	ND	ND	ND
Iron, TCLP	5	0.23 J	0.33 J	0.26 J	ND	0.2 J
Lead, TCLP	0.0075	ND	ND	ND	ND	ND
Manganese, TCLP	0.15	6.2	1.7	0.012 J	1.1	1.7
Mercury, TCLP	0.002	ND	ND	ND	ND	ND
Nickel, TCLP	0.1	0.026	ND	ND	0.015 J	0.023 J
Selenium, TCLP	0.05	ND	ND	ND	ND	ND
Silver, TCLP	0.05	ND	ND	ND	ND	ND
Zinc, TCLP	5	0.17 J	ND	0.056 J	0.021 J	0.03 J

Summary Table - IL-173
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Alden Township and Crystal Lake,
McHenry County, Illinois

Location	Reference Concentrations (MAC Table)	IL173-1	IL173-1	IL173-2	IL173-2	IL173-2
Field Sample ID		IL173-1(0-5)-122122	IL173-1(5-11)-122122	IL173-2(0-5)-122122	IL173-2(5-11)-122122	IL173-2(5-11)-122122D
Sample Date		12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
ISGS Site No.		N/A	N/A	N/A	N/A	N/A
Lab Sample ID		4431-4 and 4431-5	4431-4 and 4431-5	4431-4 and 4431-6	4431-4 and 4431-6	4431-4 and 4431-6
SPLP Metals (mg/l)						
Arsenic, SPLP	0.05	0.087	0.11	0.043 J	0.013 J	0.018 J
Barium, SPLP	2	1	0.6	0.52	0.31 J	0.28 J
Beryllium, SPLP	0.004	0.01	0.0095	0.0054	ND	ND
Cadmium, SPLP	0.005	ND	ND	ND	ND	ND
Chromium, SPLP	0.1	0.2	0.17	0.13	0.063	0.056
Cobalt, SPLP	1	0.068	0.064	0.027	0.015 J	0.013 J
Copper, SPLP	0.65	0.19	0.18	0.12	0.07	0.064
Iron, SPLP	5	210	290	120	52	47
Lead, SPLP	0.0075	0.25	0.069	0.26	0.023	0.022
Manganese, SPLP	0.15	1.8	3.2	1.3	0.34	0.31
Mercury, SPLP	0.002	ND	ND	ND	ND	ND
Nickel, SPLP	0.1	0.18	0.18	0.1	0.057	0.051
Selenium, SPLP	0.05	ND	ND	ND	ND	ND
Silver, SPLP	0.05	ND	ND	ND	ND	ND
Zinc, SPLP	5	0.69	0.3 J	0.65	0.13 J	0.1 J

Notes:

--- - not applicable or value not available.

Reference concentrations from MAC Table include background values for MSA counties, as applicable.

SRO - Soil Remediation Objective. From TACO, Appendix B, Table A.

SROs for the ingestion and inhalation exposures pathways are presented, as applicable.

ND - Constituent not detected above the reporting limit.

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

J - Estimated concentration.

Yellow shaded values indicate concentration exceeds MAC Table Reference Concentration.



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Andris Slesers
Weston Solutions, Inc.
300 Knightsbridge Parkway
Suite 360
Lincolnshire, Illinois 60069

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JOB DESCRIPTION

IDOT - McHenry County - WO 048

JOB NUMBER

500-227215-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(0-5)-122122

Lab Sample ID: 500-227215-1

Date Collected: 12/21/22 09:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 77.1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.057		0.020	0.0087	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Benzene	<0.0020		0.0020	0.00051	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Bromoform	<0.0020		0.0020	0.00058	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Bromomethane	<0.0050		0.0050	0.0019	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Carbon disulfide	<0.0050		0.0050	0.0010	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Carbon tetrachloride	<0.0020		0.0020	0.00058	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Chlorobenzene	<0.0020		0.0020	0.00074	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Chloroethane	<0.0050		0.0050	0.0015	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Chloroform	<0.0020		0.0020	0.00069	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Chloromethane	<0.0050		0.0050	0.0020	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00056	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Dibromochloromethane	<0.0020		0.0020	0.00065	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,1-Dichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,2-Dichloroethane	<0.0050		0.0050	0.0016	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,1-Dichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00070	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Ethylbenzene	<0.0020		0.0020	0.00095	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
2-Hexanone	<0.0050		0.0050	0.0016	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Methylene Chloride	<0.0050		0.0050	0.0020	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Methyl Ethyl Ketone	0.014		0.0050	0.0022	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
methyl isobutyl ketone	<0.0050		0.0050	0.0015	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00059	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Styrene	<0.0020		0.0020	0.00060	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00064	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Tetrachloroethene	<0.0020		0.0020	0.00068	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Toluene	0.0015 J		0.0020	0.00050	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00088	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00070	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00067	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00086	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Trichloroethene	<0.0020		0.0020	0.00067	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Vinyl chloride	<0.0020		0.0020	0.00088	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1
Xylenes, Total	<0.0040		0.0040	0.00064	mg/Kg	☼	12/21/22 18:00	12/30/22 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		75 - 131	12/21/22 18:00	12/30/22 15:03	1
Dibromofluoromethane (Surr)	98		75 - 126	12/21/22 18:00	12/30/22 15:03	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 134	12/21/22 18:00	12/30/22 15:03	1
Toluene-d8 (Surr)	85		75 - 124	12/21/22 18:00	12/30/22 15:03	1

Method: SW846 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	0.046	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
1,2-Dichlorobenzene	<0.21		0.21	0.051	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
1,3-Dichlorobenzene	<0.21		0.21	0.048	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
1,4-Dichlorobenzene	<0.21		0.21	0.054	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.049	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1

Eurofins Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(0-5)-122122

Lab Sample ID: 500-227215-1

Date Collected: 12/21/22 09:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 77.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.42		0.42	0.097	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2,4,6-Trichlorophenol	<0.42		0.42	0.15	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2,4-Dichlorophenol	<0.42		0.42	0.10	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2,4-Dimethylphenol	<0.42		0.42	0.16	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2,4-Dinitrophenol	<0.86		0.86	0.75	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2,4-Dinitrotoluene	<0.21		0.21	0.067	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2,6-Dinitrotoluene	<0.21		0.21	0.083	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2-Chloronaphthalene	<0.21		0.21	0.047	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2-Chlorophenol	<0.21		0.21	0.072	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2-Methylnaphthalene	0.0095	J	0.086	0.0078	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2-Methylphenol	<0.21		0.21	0.068	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2-Nitroaniline	<0.21		0.21	0.057	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
2-Nitrophenol	<0.42		0.42	0.10	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
3 & 4 Methylphenol	<0.21		0.21	0.071	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.059	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
3-Nitroaniline	<0.42		0.42	0.13	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
4,6-Dinitro-2-methylphenol	<0.86		0.86	0.34	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.056	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
4-Chloro-3-methylphenol	<0.42		0.42	0.14	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
4-Chloroaniline	<0.86		0.86	0.20	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.050	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
4-Nitroaniline	<0.42		0.42	0.18	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
4-Nitrophenol	<0.86		0.86	0.40	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Acenaphthene	0.0079	J	0.042	0.0076	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Acenaphthylene	<0.042		0.042	0.0056	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Anthracene	0.042		0.042	0.0071	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Benzo[a]anthracene	0.036	J	0.042	0.0057	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Benzo[a]pyrene	0.043		0.042	0.0082	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Benzo[b]fluoranthene	0.055		0.042	0.0092	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Benzo[g,h,i]perylene	0.018	J	0.042	0.014	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Benzo[k]fluoranthene	0.023	J	0.042	0.013	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.043	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.064	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.078	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Butyl benzyl phthalate	<0.21		0.21	0.081	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Carbazole	<0.21		0.21	0.11	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Chrysene	0.045		0.042	0.012	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Dibenz(a,h)anthracene	<0.042		0.042	0.0082	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Dibenzofuran	<0.21		0.21	0.050	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Diethyl phthalate	<0.21		0.21	0.072	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Dimethyl phthalate	<0.21		0.21	0.055	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Di-n-butyl phthalate	<0.21		0.21	0.065	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Di-n-octyl phthalate	<0.21		0.21	0.069	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Fluoranthene	0.074		0.042	0.0079	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Fluorene	0.041	J	0.042	0.0060	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Hexachlorobenzene	<0.086		0.086	0.0098	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Hexachlorobutadiene	<0.21		0.21	0.067	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Hexachlorocyclopentadiene	<0.86		0.86	0.24	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Hexachloroethane	<0.21		0.21	0.064	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(0-5)-122122

Lab Sample ID: 500-227215-1

Date Collected: 12/21/22 09:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 77.1

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	0.021	J	0.042	0.011	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Isophorone	<0.21		0.21	0.048	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Naphthalene	<0.042		0.042	0.0065	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Nitrobenzene	<0.042		0.042	0.011	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
N-Nitrosodi-n-propylamine	<0.086		0.086	0.052	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
N-Nitrosodiphenylamine	<0.21		0.21	0.050	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Pentachlorophenol	<0.86		0.86	0.68	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Phenanthrene	0.064		0.042	0.0059	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Phenol	<0.21		0.21	0.094	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Pyrene	0.073		0.042	0.0084	mg/Kg	☼	12/27/22 13:36	12/30/22 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		31 - 143				12/27/22 13:36	12/30/22 21:11	1
2-Fluorobiphenyl (Surr)	82		43 - 145				12/27/22 13:36	12/30/22 21:11	1
2-Fluorophenol (Surr)	97		31 - 166				12/27/22 13:36	12/30/22 21:11	1
Nitrobenzene-d5 (Surr)	68		37 - 147				12/27/22 13:36	12/30/22 21:11	1
Phenol-d5 (Surr)	101		30 - 153				12/27/22 13:36	12/30/22 21:11	1
Terphenyl-d14 (Surr)	115		42 - 157				12/27/22 13:36	12/30/22 21:11	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/22 16:34	12/30/22 14:28	1
Barium	0.73		0.50	0.050	mg/L		12/29/22 16:34	12/30/22 14:28	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:34	12/30/22 14:28	1
Cadmium	0.0024	J	0.0050	0.0020	mg/L		12/29/22 16:34	12/30/22 14:28	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:28	1
Cobalt	0.030		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:28	1
Copper	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:28	1
Iron	0.23	J	0.40	0.20	mg/L		12/29/22 16:34	12/30/22 14:28	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/22 16:34	12/30/22 14:28	1
Manganese	6.2		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:28	1
Nickel	0.026		0.025	0.010	mg/L		12/29/22 16:34	01/03/23 10:44	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:34	12/30/22 14:28	1
Silver	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:28	1
Zinc	0.17	J	0.50	0.020	mg/L		12/29/22 16:34	12/30/22 14:28	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.087		0.050	0.010	mg/L		12/29/22 16:38	12/30/22 12:21	1
Barium	1.0		0.50	0.050	mg/L		12/29/22 16:38	12/30/22 12:21	1
Beryllium	0.010		0.0040	0.0040	mg/L		12/29/22 16:38	12/30/22 12:21	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:38	12/30/22 12:21	1
Chromium	0.20		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:21	1
Cobalt	0.068		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:21	1
Copper	0.19		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:21	1
Iron	210		0.40	0.20	mg/L		12/29/22 16:38	12/30/22 12:21	1
Lead	0.25		0.0075	0.0075	mg/L		12/29/22 16:38	12/30/22 12:21	1
Manganese	1.8		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:21	1
Nickel	0.18		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:21	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:38	12/30/22 12:21	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(0-5)-122122

Lab Sample ID: 500-227215-1

Date Collected: 12/21/22 09:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 77.1

Method: SW846 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		12/29/22 16:38	12/30/22 12:21	1
Zinc	0.69		0.50	0.020	mg/L		12/29/22 16:38	12/30/22 12:21	1

Method: SW846 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	15000		13	5.2	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Antimony	<1.3		1.3	0.25	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Arsenic	6.9		0.64	0.22	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Barium	98		0.64	0.073	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Beryllium	0.79		0.26	0.060	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Cadmium	0.16		0.13	0.023	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Calcium	12000		13	2.2	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Chromium	17		0.64	0.32	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Cobalt	11		0.32	0.084	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Copper	18	B	0.64	0.18	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Iron	18000	B	13	6.7	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Lead	24		0.32	0.15	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Magnesium	5300	B	6.4	3.2	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Manganese	180		0.64	0.093	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Nickel	21		0.64	0.19	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Potassium	1100		32	11	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Selenium	<0.64		0.64	0.38	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Silver	0.46		0.32	0.083	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Sodium	1500		64	9.5	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Thallium	<0.64		0.64	0.32	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Vanadium	34		0.32	0.076	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1
Zinc	64		1.3	0.56	mg/Kg	☼	12/27/22 09:07	12/28/22 10:46	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/22 15:25	12/30/22 09:50	1

Method: SW846 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		12/29/22 15:25	12/30/22 10:57	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.020	0.0067	mg/Kg	☼	12/29/22 14:50	12/30/22 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7		0.2	0.2	SU			12/28/22 10:12	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(5-11)-122122

Lab Sample ID: 500-227215-2

Date Collected: 12/21/22 09:40

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023		0.023	0.010	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Benzene	<0.0023		0.0023	0.00059	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Bromodichloromethane	<0.0023		0.0023	0.00047	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Bromoform	<0.0023		0.0023	0.00067	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Bromomethane	<0.0058		0.0058	0.0022	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Carbon disulfide	<0.0058		0.0058	0.0012	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Carbon tetrachloride	<0.0023		0.0023	0.00067	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Chlorobenzene	<0.0023		0.0023	0.00085	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Chloroethane	<0.0058		0.0058	0.0017	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Chloroform	<0.0023		0.0023	0.00080	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Chloromethane	<0.0058		0.0058	0.0023	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00064	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00069	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Dibromochloromethane	<0.0023		0.0023	0.00075	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,1-Dichloroethane	<0.0023		0.0023	0.00079	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,2-Dichloroethane	<0.0058		0.0058	0.0018	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,1-Dichloroethene	<0.0023		0.0023	0.00079	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,2-Dichloropropane	<0.0023		0.0023	0.00060	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00081	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
2-Hexanone	<0.0058		0.0058	0.0018	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Methylene Chloride	<0.0058		0.0058	0.0023	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Methyl Ethyl Ketone	<0.0058		0.0058	0.0026	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
methyl isobutyl ketone	<0.0058		0.0058	0.0017	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00068	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Styrene	<0.0023		0.0023	0.00070	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00074	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Tetrachloroethene	<0.0023		0.0023	0.00078	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Toluene	0.0015	J	0.0023	0.00058	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00081	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00077	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00099	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Trichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1
Xylenes, Total	<0.0046		0.0046	0.00074	mg/Kg	☆	12/21/22 18:00	12/30/22 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	12/21/22 18:00	12/30/22 15:29	1
Dibromofluoromethane (Surr)	100		75 - 126	12/21/22 18:00	12/30/22 15:29	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	12/21/22 18:00	12/30/22 15:29	1
Toluene-d8 (Surr)	83		75 - 124	12/21/22 18:00	12/30/22 15:29	1

Method: SW846 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	☆	12/27/22 13:36	12/30/22 18:41	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☆	12/27/22 13:36	12/30/22 18:41	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☆	12/27/22 13:36	12/30/22 18:41	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☆	12/27/22 13:36	12/30/22 18:41	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☆	12/27/22 13:36	12/30/22 18:41	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(5-11)-122122

Lab Sample ID: 500-227215-2

Date Collected: 12/21/22 09:40

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.1

Method: SW846 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	☼	12/27/22 13:36	12/30/22 18:41	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2-Nitroaniline	<0.19		0.19	0.051	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.053	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Acenaphthene	<0.037		0.037	0.0068	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Acenaphthylene	<0.037		0.037	0.0050	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Anthracene	0.032	J	0.037	0.0063	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Benzo[a]anthracene	<0.037		0.037	0.0051	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Benzo[a]pyrene	<0.037		0.037	0.0073	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Benzo[b]fluoranthene	<0.037		0.037	0.0081	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Benzo[g,h,i]perylene	<0.037		0.037	0.012	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Benzo[k]fluoranthene	<0.037		0.037	0.011	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Butyl benzyl phthalate	<0.19		0.19	0.072	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Chrysene	<0.037		0.037	0.010	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Dibenz(a,h)anthracene	<0.037		0.037	0.0073	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Fluoranthene	0.015	J	0.037	0.0070	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Fluorene	0.034	J	0.037	0.0053	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(5-11)-122122

Lab Sample ID: 500-227215-2

Date Collected: 12/21/22 09:40

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.1

Method: SW846 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	0.0098	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Phenanthrene	0.035	J	0.037	0.0052	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Phenol	<0.19		0.19	0.084	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Pyrene	<0.037		0.037	0.0075	mg/Kg	☼	12/27/22 13:36	12/30/22 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		31 - 143				12/27/22 13:36	12/30/22 18:41	1
2-Fluorobiphenyl (Surr)	88		43 - 145				12/27/22 13:36	12/30/22 18:41	1
2-Fluorophenol (Surr)	100		31 - 166				12/27/22 13:36	12/30/22 18:41	1
Nitrobenzene-d5 (Surr)	79		37 - 147				12/27/22 13:36	12/30/22 18:41	1
Phenol-d5 (Surr)	102		30 - 153				12/27/22 13:36	12/30/22 18:41	1
Terphenyl-d14 (Surr)	124		42 - 157				12/27/22 13:36	12/30/22 18:41	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/22 16:34	12/30/22 14:31	1
Barium	0.24	J	0.50	0.050	mg/L		12/29/22 16:34	12/30/22 14:31	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:34	12/30/22 14:31	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:34	12/30/22 14:31	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:31	1
Cobalt	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:31	1
Copper	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:31	1
Iron	0.33	J	0.40	0.20	mg/L		12/29/22 16:34	12/30/22 14:31	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/22 16:34	12/30/22 14:31	1
Manganese	1.7		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:31	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:31	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:34	12/30/22 14:31	1
Silver	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:31	1
Zinc	<0.50		0.50	0.020	mg/L		12/29/22 16:34	12/30/22 14:31	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.050	0.010	mg/L		12/29/22 16:38	12/30/22 12:24	1
Barium	0.60		0.50	0.050	mg/L		12/29/22 16:38	12/30/22 12:24	1
Beryllium	0.0095		0.0040	0.0040	mg/L		12/29/22 16:38	12/30/22 12:24	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:38	12/30/22 12:24	1
Chromium	0.17		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:24	1
Cobalt	0.064		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:24	1
Copper	0.18		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:24	1
Iron	290		0.40	0.20	mg/L		12/29/22 16:38	12/30/22 12:24	1
Lead	0.069		0.0075	0.0075	mg/L		12/29/22 16:38	12/30/22 12:24	1
Manganese	3.2		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:24	1
Nickel	0.18		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:24	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:38	12/30/22 12:24	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-1(5-11)-122122

Lab Sample ID: 500-227215-2

Date Collected: 12/21/22 09:40

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.1

Method: SW846 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		12/29/22 16:38	12/30/22 12:24	1
Zinc	0.30	J	0.50	0.020	mg/L		12/29/22 16:38	12/30/22 12:24	1

Method: SW846 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7700		11	4.5	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Antimony	0.31	J	1.1	0.22	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Arsenic	7.4		0.55	0.19	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Barium	45		0.55	0.063	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Beryllium	0.57		0.22	0.052	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Cadmium	0.11		0.11	0.020	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Calcium	55000		55	9.4	mg/Kg	☆	12/27/22 09:07	12/28/22 14:16	5
Chromium	12		0.55	0.27	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Cobalt	7.3		0.28	0.073	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Copper	11	B	0.55	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Iron	17000	B	11	5.8	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Lead	5.8		0.28	0.13	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Magnesium	29000	B	5.5	2.8	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Manganese	550		0.55	0.080	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Nickel	15		0.55	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Potassium	1200		28	9.8	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Selenium	<0.55		0.55	0.33	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Silver	0.20	J	0.28	0.072	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Sodium	620		55	8.2	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Thallium	<0.55		0.55	0.28	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Vanadium	18		0.28	0.065	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1
Zinc	22		1.1	0.49	mg/Kg	☆	12/27/22 09:07	12/28/22 10:50	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/22 15:25	12/30/22 09:52	1

Method: SW846 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		12/29/22 15:25	12/30/22 11:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	J	0.017	0.0057	mg/Kg	☆	12/29/22 14:50	12/30/22 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.6		0.2	0.2	SU			12/28/22 10:14	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(0-5)-122122

Lab Sample ID: 500-227215-3

Date Collected: 12/21/22 09:00

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 86.3

Method: SW846 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	✳	12/21/22 18:00	12/30/22 15:54	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Bromomethane	<0.0047		0.0047	0.0018	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Carbon disulfide	<0.0047		0.0047	0.00098	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Carbon tetrachloride	<0.0019		0.0019	0.00055	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Chloroethane	<0.0047		0.0047	0.0014	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00066	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Ethylbenzene	<0.0019		0.0019	0.00090	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Methyl Ethyl Ketone	<0.0047		0.0047	0.0021	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
methyl isobutyl ketone	<0.0047		0.0047	0.0014	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Tetrachloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00066	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Vinyl chloride	<0.0019		0.0019	0.00083	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1
Xylenes, Total	<0.0038		0.0038	0.00060	mg/Kg	✳	12/21/22 18:00	12/30/22 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	12/21/22 18:00	12/30/22 15:54	1
Dibromofluoromethane (Surr)	97		75 - 126	12/21/22 18:00	12/30/22 15:54	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/21/22 18:00	12/30/22 15:54	1
Toluene-d8 (Surr)	87		75 - 124	12/21/22 18:00	12/30/22 15:54	1

Method: SW846 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	✳	12/27/22 13:36	01/05/23 12:22	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✳	12/27/22 13:36	01/05/23 12:22	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	✳	12/27/22 13:36	01/05/23 12:22	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✳	12/27/22 13:36	01/05/23 12:22	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✳	12/27/22 13:36	01/05/23 12:22	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(0-5)-122122

Lab Sample ID: 500-227215-3

Date Collected: 12/21/22 09:00

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 86.3

Method: SW846 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	☼	12/27/22 13:36	01/05/23 12:22	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2-Methylnaphthalene	0.0081	J	0.073	0.0066	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Anthracene	0.0088	J	0.036	0.0060	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Benzo[a]anthracene	0.039		0.036	0.0049	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Benzo[a]pyrene	0.037		0.036	0.0070	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Benzo[b]fluoranthene	0.047		0.036	0.0078	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Benzo[g,h,i]perylene	0.023	J	0.036	0.012	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Benzo[k]fluoranthene	0.017	J	0.036	0.011	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Chrysene	0.047		0.036	0.0098	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Fluoranthene	0.068		0.036	0.0067	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(0-5)-122122

Lab Sample ID: 500-227215-3

Date Collected: 12/21/22 09:00

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 86.3

Method: SW846 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	0.036	0.0094	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Naphthalene	0.0061	J	0.036	0.0056	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Phenanthrene	0.047		0.036	0.0050	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Pyrene	0.078		0.036	0.0072	mg/Kg	☼	12/27/22 13:36	01/05/23 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		31 - 143				12/27/22 13:36	01/05/23 12:22	1
2-Fluorobiphenyl (Surr)	79		43 - 145				12/27/22 13:36	01/05/23 12:22	1
2-Fluorophenol (Surr)	105		31 - 166				12/27/22 13:36	01/05/23 12:22	1
Nitrobenzene-d5 (Surr)	79		37 - 147				12/27/22 13:36	01/05/23 12:22	1
Phenol-d5 (Surr)	98		30 - 153				12/27/22 13:36	01/05/23 12:22	1
Terphenyl-d14 (Surr)	98		42 - 157				12/27/22 13:36	01/05/23 12:22	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/22 16:34	12/30/22 14:34	1
Barium	0.43	J	0.50	0.050	mg/L		12/29/22 16:34	12/30/22 14:34	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:34	12/30/22 14:34	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:34	12/30/22 14:34	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:34	1
Cobalt	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:34	1
Copper	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:34	1
Iron	0.26	J	0.40	0.20	mg/L		12/29/22 16:34	12/30/22 14:34	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/22 16:34	12/30/22 14:34	1
Manganese	0.012	J	0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:34	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:34	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:34	12/30/22 14:34	1
Silver	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 14:34	1
Zinc	0.056	J	0.50	0.020	mg/L		12/29/22 16:34	12/30/22 14:34	1

Method: SW846 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		12/29/22 16:38	12/30/22 12:27	1
Barium	0.52		0.50	0.050	mg/L		12/29/22 16:38	12/30/22 12:27	1
Beryllium	0.0054		0.0040	0.0040	mg/L		12/29/22 16:38	12/30/22 12:27	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:38	12/30/22 12:27	1
Chromium	0.13		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:27	1
Cobalt	0.027		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:27	1
Copper	0.12		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:27	1
Iron	120		0.40	0.20	mg/L		12/29/22 16:38	12/30/22 12:27	1
Lead	0.26		0.0075	0.0075	mg/L		12/29/22 16:38	12/30/22 12:27	1
Manganese	1.3		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:27	1
Nickel	0.10		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:27	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:38	12/30/22 12:27	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(0-5)-122122

Lab Sample ID: 500-227215-3

Date Collected: 12/21/22 09:00

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 86.3

Method: SW846 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		12/29/22 16:38	12/30/22 12:27	1
Zinc	0.65		0.50	0.020	mg/L		12/29/22 16:38	12/30/22 12:27	1

Method: SW846 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6000		11	4.6	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Antimony	0.23	J F1	1.1	0.22	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Arsenic	3.3	F1 F2	0.56	0.19	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Barium	45		0.56	0.064	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Beryllium	0.45		0.22	0.052	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Cadmium	0.28		0.11	0.020	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Calcium	63000	F2	56	9.5	mg/Kg	☆	12/27/22 09:07	12/28/22 14:20	5
Chromium	9.7		0.56	0.28	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Cobalt	4.4		0.28	0.073	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Copper	14	B F1	0.56	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Iron	9800	B	11	5.8	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Lead	62		0.28	0.13	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Magnesium	28000	B	5.6	2.8	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Manganese	290		0.56	0.081	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Nickel	11	F1	0.56	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Potassium	770	F1	28	9.9	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Silver	0.16	J	0.28	0.072	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Sodium	600		56	8.3	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Vanadium	19		0.28	0.066	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1
Zinc	73	F1	1.1	0.49	mg/Kg	☆	12/27/22 09:07	12/28/22 10:53	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/22 15:25	12/30/22 10:12	1

Method: SW846 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		12/29/22 15:25	12/30/22 11:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.018	0.0060	mg/Kg	☆	12/29/22 14:50	12/30/22 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5		0.2	0.2	SU			12/28/22 10:17	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122

Lab Sample ID: 500-227215-4

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.9

Method: SW846 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	☼	12/21/22 18:00	12/30/22 16:19	1
Benzene	<0.0017		0.0017	0.00044	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Bromoform	<0.0017		0.0017	0.00051	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Bromomethane	<0.0043		0.0043	0.0016	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Carbon disulfide	<0.0043		0.0043	0.00090	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Carbon tetrachloride	<0.0017		0.0017	0.00050	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Chlorobenzene	<0.0017		0.0017	0.00064	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Chloroethane	<0.0043		0.0043	0.0013	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Chloroform	<0.0017		0.0017	0.00060	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Chloromethane	<0.0043		0.0043	0.0017	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00048	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Dibromochloromethane	<0.0017		0.0017	0.00057	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,1-Dichloroethane	<0.0017		0.0017	0.00059	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,2-Dichloroethane	<0.0043		0.0043	0.0014	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,1-Dichloroethene	<0.0017		0.0017	0.00060	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00061	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Ethylbenzene	<0.0017		0.0017	0.00083	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
2-Hexanone	<0.0043		0.0043	0.0014	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Methylene Chloride	<0.0043		0.0043	0.0017	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Methyl Ethyl Ketone	<0.0043		0.0043	0.0019	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
methyl isobutyl ketone	<0.0043		0.0043	0.0013	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00051	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Styrene	<0.0017		0.0017	0.00052	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00055	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Tetrachloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Toluene	0.0013	J	0.0017	0.00044	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00077	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00061	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00074	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Trichloroethene	<0.0017		0.0017	0.00059	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Vinyl chloride	<0.0017		0.0017	0.00077	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1
Xylenes, Total	<0.0035		0.0035	0.00055	mg/Kg	☼	12/21/22 18:00	12/30/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		75 - 131	12/21/22 18:00	12/30/22 16:19	1
Dibromofluoromethane (Surr)	97		75 - 126	12/21/22 18:00	12/30/22 16:19	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	12/21/22 18:00	12/30/22 16:19	1
Toluene-d8 (Surr)	82		75 - 124	12/21/22 18:00	12/30/22 16:19	1

Method: SW846 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	☼	12/27/22 13:36	12/30/22 19:02	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122

Lab Sample ID: 500-227215-4

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.9

Method: SW846 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	☼	12/27/22 13:36	12/30/22 19:02	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
4-Nitrophenol	<0.73		0.73	0.35	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Anthracene	0.031	J	0.036	0.0061	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Benzo[a]anthracene	<0.036		0.036	0.0049	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Benzo[a]pyrene	<0.036		0.036	0.0071	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Benzo[b]fluoranthene	<0.036		0.036	0.0079	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Fluoranthene	0.011	J	0.036	0.0068	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Fluorene	0.032	J	0.036	0.0051	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122

Lab Sample ID: 500-227215-4

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.9

Method: SW846 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	☼	12/27/22 13:36	12/30/22 19:02	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.045	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Phenanthrene	0.032	J	0.036	0.0051	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1
Pyrene	<0.036		0.036	0.0072	mg/Kg	☼	12/27/22 13:36	12/30/22 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		31 - 143	12/27/22 13:36	12/30/22 19:02	1
2-Fluorobiphenyl (Surr)	84		43 - 145	12/27/22 13:36	12/30/22 19:02	1
2-Fluorophenol (Surr)	89		31 - 166	12/27/22 13:36	12/30/22 19:02	1
Nitrobenzene-d5 (Surr)	74		37 - 147	12/27/22 13:36	12/30/22 19:02	1
Phenol-d5 (Surr)	92		30 - 153	12/27/22 13:36	12/30/22 19:02	1
Terphenyl-d14 (Surr)	123		42 - 157	12/27/22 13:36	12/30/22 19:02	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/22 16:34	12/30/22 15:00	1
Barium	0.32	J	0.50	0.050	mg/L		12/29/22 16:34	12/30/22 15:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:34	12/30/22 15:00	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:34	12/30/22 15:00	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:00	1
Cobalt	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:00	1
Copper	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:00	1
Iron	<0.40		0.40	0.20	mg/L		12/29/22 16:34	12/30/22 15:00	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/22 16:34	01/03/23 10:53	1
Manganese	1.1		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:00	1
Nickel	0.015	J	0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:00	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:34	12/30/22 15:00	1
Silver	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:00	1
Zinc	0.021	J	0.50	0.020	mg/L		12/29/22 16:34	12/30/22 15:00	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	J	0.050	0.010	mg/L		12/29/22 16:38	12/30/22 12:37	1
Barium	0.31	J	0.50	0.050	mg/L		12/29/22 16:38	12/30/22 12:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:38	12/30/22 12:37	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:38	12/30/22 12:37	1
Chromium	0.063		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:37	1
Cobalt	0.015	J	0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:37	1
Copper	0.070		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:37	1
Iron	52		0.40	0.20	mg/L		12/29/22 16:38	12/30/22 12:37	1
Lead	0.023		0.0075	0.0075	mg/L		12/29/22 16:38	12/30/22 12:37	1
Manganese	0.34		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:37	1
Nickel	0.057		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:37	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:38	12/30/22 12:37	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122

Lab Sample ID: 500-227215-4

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 87.9

Method: SW846 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		12/29/22 16:38	12/30/22 12:37	1
Zinc	0.13	J	0.50	0.020	mg/L		12/29/22 16:38	12/30/22 12:37	1

Method: SW846 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3400		11	4.6	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Antimony	<1.1		1.1	0.22	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Arsenic	1.3		0.56	0.19	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Barium	18		2.8	0.32	mg/Kg	☆	12/27/22 09:07	12/28/22 14:42	5
Beryllium	0.28		0.22	0.052	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Cadmium	0.063	J	0.11	0.020	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Calcium	83000		56	9.5	mg/Kg	☆	12/27/22 09:07	12/28/22 14:42	5
Chromium	5.5		0.56	0.28	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Cobalt	2.6		0.28	0.074	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Copper	6.6	B	0.56	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Iron	6000	B	56	29	mg/Kg	☆	12/27/22 09:07	12/28/22 14:42	5
Lead	2.9		0.28	0.13	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Magnesium	40000	B	28	14	mg/Kg	☆	12/27/22 09:07	12/28/22 14:42	5
Manganese	130		0.56	0.081	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Nickel	6.5		0.56	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Potassium	780		28	9.9	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Silver	0.14	J	0.28	0.072	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Sodium	200		56	8.3	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Vanadium	10		0.28	0.066	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1
Zinc	12		1.1	0.49	mg/Kg	☆	12/27/22 09:07	12/28/22 11:09	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/22 11:40	12/30/22 08:44	1

Method: SW846 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		12/29/22 15:25	12/30/22 11:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0067	J	0.017	0.0057	mg/Kg	☆	12/29/22 14:50	12/30/22 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.7		0.2	0.2	SU			12/28/22 10:19	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122D

Lab Sample ID: 500-227215-7

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 91.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0063	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Benzene	<0.0015		0.0015	0.00037	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Bromomethane	<0.0036		0.0036	0.0014	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Carbon disulfide	<0.0036		0.0036	0.00076	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Carbon tetrachloride	<0.0015		0.0015	0.00042	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Chlorobenzene	<0.0015		0.0015	0.00054	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Chloroethane	<0.0036		0.0036	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Chloroform	<0.0015		0.0015	0.00051	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Chloromethane	<0.0036		0.0036	0.0015	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00044	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,1-Dichloroethane	<0.0015		0.0015	0.00050	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,2-Dichloroethane	<0.0036		0.0036	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,1-Dichloroethene	<0.0015		0.0015	0.00050	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00051	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Ethylbenzene	<0.0015		0.0015	0.00070	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
2-Hexanone	<0.0036		0.0036	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Methylene Chloride	<0.0036		0.0036	0.0014	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Methyl Ethyl Ketone	<0.0036		0.0036	0.0016	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
methyl isobutyl ketone	<0.0036		0.0036	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Styrene	<0.0015		0.0015	0.00044	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00047	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Tetrachloroethene	<0.0015		0.0015	0.00050	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Toluene	0.00067	J	0.0015	0.00037	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00065	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00051	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00049	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Trichloroethene	<0.0015		0.0015	0.00049	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Vinyl chloride	<0.0015		0.0015	0.00064	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1
Xylenes, Total	<0.0029		0.0029	0.00047	mg/Kg	✳	12/21/22 18:00	12/30/22 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		75 - 131	12/21/22 18:00	12/30/22 17:35	1
Dibromofluoromethane (Surr)	96		75 - 126	12/21/22 18:00	12/30/22 17:35	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/21/22 18:00	12/30/22 17:35	1
Toluene-d8 (Surr)	83		75 - 124	12/21/22 18:00	12/30/22 17:35	1

Method: SW846 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	0.038	mg/Kg	✳	12/27/22 13:36	12/30/22 20:07	1
1,2-Dichlorobenzene	<0.18		0.18	0.042	mg/Kg	✳	12/27/22 13:36	12/30/22 20:07	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✳	12/27/22 13:36	12/30/22 20:07	1
1,4-Dichlorobenzene	<0.18		0.18	0.045	mg/Kg	✳	12/27/22 13:36	12/30/22 20:07	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✳	12/27/22 13:36	12/30/22 20:07	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122D

Lab Sample ID: 500-227215-7

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 91.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.35		0.35	0.080	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2,4,6-Trichlorophenol	<0.35		0.35	0.12	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2,4-Dichlorophenol	<0.35		0.35	0.084	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2,4-Dimethylphenol	<0.35		0.35	0.13	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2,4-Dinitrophenol	<0.71		0.71	0.62	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2,4-Dinitrotoluene	<0.18		0.18	0.056	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2,6-Dinitrotoluene	<0.18		0.18	0.069	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2-Chlorophenol	<0.18		0.18	0.060	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2-Methylnaphthalene	<0.071		0.071	0.0065	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2-Methylphenol	<0.18		0.18	0.056	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2-Nitroaniline	<0.18		0.18	0.047	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
2-Nitrophenol	<0.35		0.35	0.083	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
3 & 4 Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.049	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
3-Nitroaniline	<0.35		0.35	0.11	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
4,6-Dinitro-2-methylphenol	<0.71		0.71	0.28	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.046	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
4-Chloro-3-methylphenol	<0.35		0.35	0.12	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
4-Chloroaniline	<0.71		0.71	0.17	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.041	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
4-Nitroaniline	<0.35		0.35	0.15	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
4-Nitrophenol	<0.71		0.71	0.33	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Acenaphthene	<0.035		0.035	0.0063	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Acenaphthylene	<0.035		0.035	0.0046	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Anthracene	0.030	J	0.035	0.0059	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Benzo[a]anthracene	<0.035		0.035	0.0047	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Benzo[a]pyrene	<0.035		0.035	0.0068	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Benzo[b]fluoranthene	<0.035		0.035	0.0076	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Benzo[g,h,i]perylene	<0.035		0.035	0.011	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Benzo[k]fluoranthene	<0.035		0.035	0.010	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.053	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.064	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Butyl benzyl phthalate	<0.18		0.18	0.067	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Carbazole	<0.18		0.18	0.088	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Chrysene	<0.035		0.035	0.0096	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Dibenz(a,h)anthracene	<0.035		0.035	0.0068	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Dibenzofuran	<0.18		0.18	0.041	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Diethyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Dimethyl phthalate	<0.18		0.18	0.046	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Di-n-octyl phthalate	<0.18		0.18	0.057	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Fluoranthene	0.013	J	0.035	0.0065	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Fluorene	0.032	J	0.035	0.0049	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Hexachlorobenzene	<0.071		0.071	0.0082	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Hexachlorobutadiene	<0.18		0.18	0.055	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Hexachlorocyclopentadiene	<0.71		0.71	0.20	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122D

Lab Sample ID: 500-227215-7

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 91.0

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.035		0.035	0.0091	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Naphthalene	<0.035		0.035	0.0054	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Nitrobenzene	<0.035		0.035	0.0088	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
N-Nitrosodi-n-propylamine	<0.071		0.071	0.043	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Pentachlorophenol	<0.71		0.71	0.56	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Phenanthrene	0.032	J	0.035	0.0049	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Phenol	<0.18		0.18	0.078	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1
Pyrene	<0.035		0.035	0.0070	mg/Kg	☼	12/27/22 13:36	12/30/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	62		31 - 143	12/27/22 13:36	12/30/22 20:07	1
2-Fluorobiphenyl (Surr)	81		43 - 145	12/27/22 13:36	12/30/22 20:07	1
2-Fluorophenol (Surr)	101		31 - 166	12/27/22 13:36	12/30/22 20:07	1
Nitrobenzene-d5 (Surr)	69		37 - 147	12/27/22 13:36	12/30/22 20:07	1
Phenol-d5 (Surr)	99		30 - 153	12/27/22 13:36	12/30/22 20:07	1
Terphenyl-d14 (Surr)	140		42 - 157	12/27/22 13:36	12/30/22 20:07	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/22 16:34	12/30/22 15:10	1
Barium	0.20	J	0.50	0.050	mg/L		12/29/22 16:34	12/30/22 15:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:34	12/30/22 15:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:34	12/30/22 15:10	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:10	1
Cobalt	0.026		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:10	1
Copper	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:10	1
Iron	0.20	J	0.40	0.20	mg/L		12/29/22 16:34	12/30/22 15:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/22 16:34	01/03/23 11:10	1
Manganese	1.7		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:10	1
Nickel	0.023	J	0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:10	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:34	12/30/22 15:10	1
Silver	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:10	1
Zinc	0.030	J	0.50	0.020	mg/L		12/29/22 16:34	12/30/22 15:10	1

Method: SW846 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		12/29/22 16:38	12/30/22 12:46	1
Barium	0.28	J	0.50	0.050	mg/L		12/29/22 16:38	12/30/22 12:46	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:38	12/30/22 12:46	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:38	12/30/22 12:46	1
Chromium	0.056		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:46	1
Cobalt	0.013	J	0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:46	1
Copper	0.064		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:46	1
Iron	47		0.40	0.20	mg/L		12/29/22 16:38	12/30/22 12:46	1
Lead	0.022		0.0075	0.0075	mg/L		12/29/22 16:38	12/30/22 12:46	1
Manganese	0.31		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:46	1
Nickel	0.051		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:46	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:38	12/30/22 12:46	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL173-2(5-11)-122122D

Lab Sample ID: 500-227215-7

Date Collected: 12/21/22 09:10

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 91.0

Method: SW846 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		12/29/22 16:38	12/30/22 12:46	1
Zinc	0.10	J	0.50	0.020	mg/L		12/29/22 16:38	12/30/22 12:46	1

Method: SW846 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3200		11	4.5	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Antimony	<1.1		1.1	0.21	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Arsenic	0.78		0.55	0.19	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Barium	17		2.7	0.31	mg/Kg	⊛	12/27/22 09:07	12/28/22 14:51	5
Beryllium	0.28		0.22	0.051	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Cadmium	0.067	J	0.11	0.020	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Calcium	81000		55	9.3	mg/Kg	⊛	12/27/22 09:07	12/28/22 14:51	5
Chromium	5.3		0.55	0.27	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Cobalt	2.4		0.27	0.072	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Copper	6.6	B	0.55	0.15	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Iron	6000	B	55	29	mg/Kg	⊛	12/27/22 09:07	12/28/22 14:51	5
Lead	2.7		0.27	0.13	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Magnesium	39000	B	27	14	mg/Kg	⊛	12/27/22 09:07	12/28/22 14:51	5
Manganese	120		0.55	0.080	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Nickel	6.3		0.55	0.16	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Potassium	760		27	9.7	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Selenium	<0.55		0.55	0.32	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Silver	0.12	J	0.27	0.071	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Sodium	190		55	8.1	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Thallium	0.30	J	0.55	0.27	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Vanadium	8.9		0.27	0.065	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1
Zinc	12		1.1	0.48	mg/Kg	⊛	12/27/22 09:07	12/28/22 11:25	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/22 11:40	12/30/22 08:51	1

Method: SW846 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		12/29/22 15:25	12/30/22 11:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0055	mg/Kg	⊛	12/29/22 14:50	12/30/22 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.3		0.2	0.2	SU			12/28/22 10:29	1

Definitions/Glossary

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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 exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count



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 0335 - IL 176 Office Phone Number, if available: _____

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

Kishwaukee River: 9600 Block of IL 176 (SILR No. 4431-2)

City: Unincorporated State: IL Zip Code: _____

County: McHenry Township: Dorr

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

Latitude: 42.24985 Longitude: - 88.38433

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

GPS Map Interpolation Photo Interpolation Survey Other

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

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

Estimated Volume of debris (cu. Yd.): 169

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 IL176-1 WAS SAMPLED ADJACENT TO SILR SITE NO. 4431-2. SEE FIGURE 3-2, AND TABLE 4-1 OF THE 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 REPORTS - JOB ID: 500-227215-1. ALSO SEE FIGURE 4-2 OF THE 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 Knightsbridge Parkway; Suite 360
 City: Lincolnshire State: IL Zip Code: 60069
 Phone: (224) 864-7200

Michael A. Castillo, P.G.

Printed Name:

Michael A. Castillo

Licensed Professional Engineer or
 Licensed Professional Geologist Signature:

25 January 2023

Date:



Summary Table - IL-176
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Alden Township and Crystal Lake,
McHenry County, Illinois

Location		IL176-1	IL176-1
Field Sample ID	Reference	IL176-1(0-5)-122122	IL176-1(5-11)-122122
Sample Date	Concentrations	12/21/2022	12/21/2022
ISGS Site No.	(MAC Table)	N/A	N/A
Lab Sample ID		4431-2	4431-2
Laboratory pH	<6.25, >9.0	8.2	8.2
VOCs			
Acetone	25	ND	ND
Methyl ethyl ketone	---	ND	ND
Toluene	12	0.00066 J	0.0011 J
SVOCs (mg/kg)			
2-Methylnaphthalene	---	ND	ND
Acenaphthene	570	ND	0.0065 J
Anthracene	12000	0.033 J	0.034 J
Benzo(a)anthracene	0.9 / 1.1 / 1.8	0.006 J	0.0089 J
Benzo(a)pyrene	0.09 / 1.3 / 2.1	ND	0.0075 J
Benzo(b)fluoranthene	0.9 / 1.5 / 2.1	ND	0.011 J
Benzo(g,h,i)perylene	---	ND	ND
Benzo(k)fluoranthene	9	ND	ND
Chrysene	88	ND	0.014 J
Fluoranthene	3100	0.022 J	0.029 J
Fluorene	560	0.033 J	0.035 J
Indeno(1,2,3-cd)pyrene	0.9 / 0.9 / 1.6	ND	ND
Naphthalene	1.8	ND	ND
Phenanthrene	---	0.039	0.044
Pyrene	2300	0.01 J	0.021 J
Total Inorganics (mg/kg)			
Aluminum, Total	---	4200	4300
Antimony, Total	5	ND	ND
Arsenic, Total	11.3 / 13.0	3	1.4
Barium, Total	1500	33	21
Beryllium, Total	22	0.36	0.35
Cadmium, Total	5.2	0.12	0.092 J
Calcium, Total	---	86000	95000
Chromium, Total	21	6.9	7.1
Cobalt, Total	20	4.4	3.9
Copper, Total	2900	11 B	10 B
Iron, Total	15000 / 15900	9200 B	9400 B
Lead, Total	107	4.8	5
Magnesium, Total	325000	41000 B	44000 B
Manganese, Total	630 / 636	320	220
Mercury, Total	0.89	0.02	0.0087 J
Nickel, Total	100	11	9.6
Potassium, Total	---	920	1000
Selenium, Total	1.3	ND	ND
Silver, Total	4.4	0.12 J	0.16 J
Sodium, Total	---	420	320
Thallium, Total	2.6	ND	ND
Vanadium, Total	550	13	12
Zinc, Total	5100	28	25
TCLP Metals (mg/l)			
Arsenic, TCLP	0.05	ND	ND
Barium, TCLP	2	0.32 J	0.37 J
Beryllium, TCLP	0.004	ND	ND
Cadmium, TCLP	0.005	0.002 J	ND
Chromium, TCLP	0.1	ND	ND
Cobalt, TCLP	1	0.026	0.012 J
Copper, TCLP	0.65	ND	ND
Iron, TCLP	5	ND	5.2
Lead, TCLP	0.0075	ND	ND
Manganese, TCLP	0.15	3.4	2.8
Mercury, TCLP	0.002	ND	ND
Nickel, TCLP	0.1	0.025	ND
Selenium, TCLP	0.05	ND	ND
Silver, TCLP	0.05	ND	ND
Zinc, TCLP	5	0.029 J	0.06 J

Summary Table - IL-176
Comparison of Detected Constituents to Applicable Reference Concentrations
Soil Analytical Results
Alden Township and Crystal Lake,
McHenry County, Illinois

Location		IL176-1	IL176-1
Field Sample ID	Reference Concentrations (MAC Table)	IL176-1(0-5)-122122	IL176-1(5-11)-122122
Sample Date		12/21/2022	12/21/2022
ISGS Site No.		N/A	N/A
Lab Sample ID		4431-2	4431-2
SPLP Metals (mg/l)			
Arsenic, SPLP	0.05	0.051	0.01 J
Barium, SPLP	2	0.28 J	0.23 J
Beryllium, SPLP	0.004	ND	ND
Cadmium, SPLP	0.005	ND	ND
Chromium, SPLP	0.1	0.062	0.055
Cobalt, SPLP	1	0.024 J	0.021 J
Copper, SPLP	0.65	0.11	0.074
Iron, SPLP	5	71	52
Lead, SPLP	0.0075	0.034	0.032
Manganese, SPLP	0.15	0.55	0.39
Mercury, SPLP	0.002	ND	ND
Nickel, SPLP	0.1	0.077	0.055
Selenium, SPLP	0.05	ND	ND
Silver, SPLP	0.05	ND	ND
Zinc, SPLP	5	0.24 J	0.15 J

Notes:

--- - not applicable or value not available.

Reference concentrations from MAC Table include background values for MSA counties, as applicable.

SRO - Soil Remediation Objective. From TACO, Appendix B, Table A.

SROs for the ingestion and inhalation exposures pathways are presented, as applicable.

ND - Constituent not detected above the reporting limit.

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

J - Estimated concentration.

Yellow shaded values indicate concentration exceeds MAC Table Reference Concentration.



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Andris Slesers
Weston Solutions, Inc.
300 Knightsbridge Parkway
Suite 360
Lincolnshire, Illinois 60069

Generated 1/9/2023 1:16:52 PM

JOB DESCRIPTION

IDOT - McHenry County - WO 048

JOB NUMBER

500-227215-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
Richard Wright, Senior Project Manager
Richard.Wright@et.eurofinsus.com
(708)746-0045

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(0-5)-122122

Lab Sample ID: 500-227215-5

Date Collected: 12/21/22 07:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.9

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0065	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Carbon disulfide	<0.0037		0.0037	0.00077	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Chlorobenzene	<0.0015		0.0015	0.00055	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Chloroform	<0.0015		0.0015	0.00052	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00042	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Dibromochloromethane	<0.0015		0.0015	0.00049	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,1-Dichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,2-Dichloroethane	<0.0037		0.0037	0.0012	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Ethylbenzene	<0.0015		0.0015	0.00071	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
2-Hexanone	<0.0037		0.0037	0.0012	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Methyl Ethyl Ketone	<0.0037		0.0037	0.0016	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
methyl isobutyl ketone	<0.0037		0.0037	0.0011	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00044	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00047	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Tetrachloroethene	<0.0015		0.0015	0.00051	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Toluene	0.00066	J	0.0015	0.00038	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00066	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00050	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00064	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Vinyl chloride	<0.0015		0.0015	0.00066	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1
Xylenes, Total	<0.0030		0.0030	0.00048	mg/Kg	☼	12/21/22 18:00	12/30/22 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	12/21/22 18:00	12/30/22 16:44	1
Dibromofluoromethane (Surr)	95		75 - 126	12/21/22 18:00	12/30/22 16:44	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	12/21/22 18:00	12/30/22 16:44	1
Toluene-d8 (Surr)	85		75 - 124	12/21/22 18:00	12/30/22 16:44	1

Method: SW846 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	☼	12/27/22 13:36	12/30/22 19:24	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1

Eurofins Chicago

Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(0-5)-122122

Lab Sample ID: 500-227215-5

Date Collected: 12/21/22 07:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.9

Method: SW846 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	☆	12/27/22 13:36	12/30/22 19:24	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Anthracene	0.033	J	0.036	0.0061	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Benzo[a]anthracene	0.0060	J	0.036	0.0049	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Benzo[a]pyrene	<0.036		0.036	0.0070	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Benzo[b]fluoranthene	<0.036		0.036	0.0078	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Chrysene	<0.036		0.036	0.0099	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0070	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Fluoranthene	0.022	J	0.036	0.0067	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Fluorene	0.033	J	0.036	0.0051	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Hexachlorocyclopentadiene	<0.73		0.73	0.21	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☆	12/27/22 13:36	12/30/22 19:24	1

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Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(0-5)-122122

Lab Sample ID: 500-227215-5

Date Collected: 12/21/22 07:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.9

Method: SW846 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	☼	12/27/22 13:36	12/30/22 19:24	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
Phenanthrene	0.039		0.036	0.0050	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1
Pyrene	0.010	J	0.036	0.0072	mg/Kg	☼	12/27/22 13:36	12/30/22 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		31 - 143	12/27/22 13:36	12/30/22 19:24	1
2-Fluorobiphenyl (Surr)	85		43 - 145	12/27/22 13:36	12/30/22 19:24	1
2-Fluorophenol (Surr)	104		31 - 166	12/27/22 13:36	12/30/22 19:24	1
Nitrobenzene-d5 (Surr)	74		37 - 147	12/27/22 13:36	12/30/22 19:24	1
Phenol-d5 (Surr)	106		30 - 153	12/27/22 13:36	12/30/22 19:24	1
Terphenyl-d14 (Surr)	128		42 - 157	12/27/22 13:36	12/30/22 19:24	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/22 16:34	12/30/22 15:04	1
Barium	0.32	J	0.50	0.050	mg/L		12/29/22 16:34	12/30/22 15:04	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:34	12/30/22 15:04	1
Cadmium	0.0020	J	0.0050	0.0020	mg/L		12/29/22 16:34	12/30/22 15:04	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:04	1
Cobalt	0.026		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:04	1
Copper	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:04	1
Iron	<0.40		0.40	0.20	mg/L		12/29/22 16:34	12/30/22 15:04	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/22 16:34	01/03/23 10:57	1
Manganese	3.4		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:04	1
Nickel	0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:04	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:34	12/30/22 15:04	1
Silver	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:04	1
Zinc	0.029	J	0.50	0.020	mg/L		12/29/22 16:34	12/30/22 15:04	1

Method: SW846 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		12/29/22 16:38	12/30/22 12:40	1
Barium	0.28	J	0.50	0.050	mg/L		12/29/22 16:38	12/30/22 12:40	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:38	12/30/22 12:40	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:38	12/30/22 12:40	1
Chromium	0.062		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:40	1
Cobalt	0.024	J	0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:40	1
Copper	0.11		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:40	1
Iron	71		0.40	0.20	mg/L		12/29/22 16:38	12/30/22 12:40	1
Lead	0.034		0.0075	0.0075	mg/L		12/29/22 16:38	12/30/22 12:40	1
Manganese	0.55		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:40	1
Nickel	0.077		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:40	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:38	12/30/22 12:40	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(0-5)-122122

Lab Sample ID: 500-227215-5

Date Collected: 12/21/22 07:30

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.9

Method: SW846 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		12/29/22 16:38	12/30/22 12:40	1
Zinc	0.24	J	0.50	0.020	mg/L		12/29/22 16:38	12/30/22 12:40	1

Method: SW846 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4200		11	4.4	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Antimony	<1.1		1.1	0.21	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Arsenic	3.0		0.54	0.18	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Barium	33		2.7	0.31	mg/Kg	☆	12/27/22 09:07	12/28/22 14:45	5
Beryllium	0.36		0.22	0.051	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Cadmium	0.12		0.11	0.019	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Calcium	86000		54	9.2	mg/Kg	☆	12/27/22 09:07	12/28/22 14:45	5
Chromium	6.9		0.54	0.27	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Cobalt	4.4		0.27	0.071	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Copper	11	B	0.54	0.15	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Iron	9200	B	54	28	mg/Kg	☆	12/27/22 09:07	12/28/22 14:45	5
Lead	4.8		0.27	0.12	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Magnesium	41000	B	27	13	mg/Kg	☆	12/27/22 09:07	12/28/22 14:45	5
Manganese	320		0.54	0.078	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Nickel	11		0.54	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Potassium	920		27	9.6	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Selenium	<0.54		0.54	0.32	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Silver	0.12	J	0.27	0.070	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Sodium	420		54	8.0	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Thallium	<0.54		0.54	0.27	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Vanadium	13		0.27	0.064	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1
Zinc	28		1.1	0.47	mg/Kg	☆	12/27/22 09:07	12/28/22 11:18	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/22 11:40	12/30/22 08:46	1

Method: SW846 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		12/29/22 15:25	12/30/22 11:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0057	mg/Kg	☆	12/29/22 14:50	12/30/22 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2		0.2	0.2	SU			12/28/22 10:21	1

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(5-11)-122122

Lab Sample ID: 500-227215-6

Date Collected: 12/21/22 07:35

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.0

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.015		0.015	0.0064	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Benzene	<0.0015		0.0015	0.00038	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Bromodichloromethane	<0.0015		0.0015	0.00030	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Bromoform	<0.0015		0.0015	0.00043	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Bromomethane	<0.0037		0.0037	0.0014	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Carbon disulfide	<0.0037		0.0037	0.00077	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Carbon tetrachloride	<0.0015		0.0015	0.00043	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Chlorobenzene	<0.0015		0.0015	0.00054	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Chloroethane	<0.0037		0.0037	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Chloroform	<0.0015		0.0015	0.00051	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Chloromethane	<0.0037		0.0037	0.0015	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00041	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00044	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Dibromochloromethane	<0.0015		0.0015	0.00048	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,1-Dichloroethane	<0.0015		0.0015	0.00050	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,2-Dichloroethane	<0.0037		0.0037	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,1-Dichloroethene	<0.0015		0.0015	0.00051	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,2-Dichloropropane	<0.0015		0.0015	0.00038	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,3-Dichloropropene, Total	<0.0015		0.0015	0.00052	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Ethylbenzene	<0.0015		0.0015	0.00071	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
2-Hexanone	<0.0037		0.0037	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Methylene Chloride	<0.0037		0.0037	0.0015	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Methyl Ethyl Ketone	<0.0037		0.0037	0.0016	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
methyl isobutyl ketone	<0.0037		0.0037	0.0011	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00043	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Styrene	<0.0015		0.0015	0.00045	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00047	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Tetrachloroethene	<0.0015		0.0015	0.00050	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Toluene	0.0011	J	0.0015	0.00037	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00065	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00052	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00049	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00063	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Trichloroethene	<0.0015		0.0015	0.00050	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Vinyl chloride	<0.0015		0.0015	0.00065	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1
Xylenes, Total	<0.0029		0.0029	0.00047	mg/Kg	✳	12/21/22 18:00	12/30/22 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		75 - 131	12/21/22 18:00	12/30/22 17:10	1
Dibromofluoromethane (Surr)	98		75 - 126	12/21/22 18:00	12/30/22 17:10	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	12/21/22 18:00	12/30/22 17:10	1
Toluene-d8 (Surr)	87		75 - 124	12/21/22 18:00	12/30/22 17:10	1

Method: SW846 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	✳	12/27/22 13:36	12/30/22 19:45	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	✳	12/27/22 13:36	12/30/22 19:45	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	✳	12/27/22 13:36	12/30/22 19:45	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	✳	12/27/22 13:36	12/30/22 19:45	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	✳	12/27/22 13:36	12/30/22 19:45	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(5-11)-122122

Lab Sample ID: 500-227215-6

Date Collected: 12/21/22 07:35

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.0

Method: SW846 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	☆	12/27/22 13:36	12/30/22 19:45	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2-Methylnaphthalene	<0.072		0.072	0.0066	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Acenaphthene	0.0065	J	0.036	0.0064	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Acenaphthylene	<0.036		0.036	0.0047	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Anthracene	0.034	J	0.036	0.0060	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Benzo[a]anthracene	0.0089	J	0.036	0.0048	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Benzo[a]pyrene	0.0075	J	0.036	0.0069	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Benzo[b]fluoranthene	0.011	J	0.036	0.0077	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Benzo[g,h,i]perylene	<0.036		0.036	0.012	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Benzo[k]fluoranthene	<0.036		0.036	0.011	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.065	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Carbazole	<0.18		0.18	0.089	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Chrysene	0.014	J	0.036	0.0098	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Dibenz(a,h)anthracene	<0.036		0.036	0.0069	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Fluoranthene	0.029	J	0.036	0.0066	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Fluorene	0.035	J	0.036	0.0050	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Hexachlorocyclopentadiene	<0.72		0.72	0.21	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☆	12/27/22 13:36	12/30/22 19:45	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(5-11)-122122

Lab Sample ID: 500-227215-6

Date Collected: 12/21/22 07:35

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.0

Method: SW846 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	0.0093	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Naphthalene	<0.036		0.036	0.0055	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Phenanthrene	0.044		0.036	0.0050	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Phenol	<0.18		0.18	0.079	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Pyrene	0.021 J		0.036	0.0071	mg/Kg	☼	12/27/22 13:36	12/30/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		31 - 143				12/27/22 13:36	12/30/22 19:45	1
2-Fluorobiphenyl (Surr)	90		43 - 145				12/27/22 13:36	12/30/22 19:45	1
2-Fluorophenol (Surr)	92		31 - 166				12/27/22 13:36	12/30/22 19:45	1
Nitrobenzene-d5 (Surr)	73		37 - 147				12/27/22 13:36	12/30/22 19:45	1
Phenol-d5 (Surr)	113		30 - 153				12/27/22 13:36	12/30/22 19:45	1
Terphenyl-d14 (Surr)	142		42 - 157				12/27/22 13:36	12/30/22 19:45	1

Method: SW846 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		12/29/22 16:34	12/30/22 15:07	1
Barium	0.37 J		0.50	0.050	mg/L		12/29/22 16:34	12/30/22 15:07	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:34	12/30/22 15:07	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:34	12/30/22 15:07	1
Chromium	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:07	1
Cobalt	0.012 J		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:07	1
Copper	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:07	1
Iron	5.2		0.40	0.20	mg/L		12/29/22 16:34	12/30/22 15:07	1
Lead	<0.0075		0.0075	0.0075	mg/L		12/29/22 16:34	01/03/23 11:00	1
Manganese	2.8		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:07	1
Nickel	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:07	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:34	12/30/22 15:07	1
Silver	<0.025		0.025	0.010	mg/L		12/29/22 16:34	12/30/22 15:07	1
Zinc	0.060 J		0.50	0.020	mg/L		12/29/22 16:34	12/30/22 15:07	1

Method: SW846 6010B - Metals (ICP) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010 J		0.050	0.010	mg/L		12/29/22 16:38	12/30/22 12:43	1
Barium	0.23 J		0.50	0.050	mg/L		12/29/22 16:38	12/30/22 12:43	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		12/29/22 16:38	12/30/22 12:43	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		12/29/22 16:38	12/30/22 12:43	1
Chromium	0.055		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:43	1
Cobalt	0.021 J		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:43	1
Copper	0.074		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:43	1
Iron	52		0.40	0.20	mg/L		12/29/22 16:38	12/30/22 12:43	1
Lead	0.032		0.0075	0.0075	mg/L		12/29/22 16:38	12/30/22 12:43	1
Manganese	0.39		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:43	1
Nickel	0.055		0.025	0.010	mg/L		12/29/22 16:38	12/30/22 12:43	1
Selenium	<0.050		0.050	0.020	mg/L		12/29/22 16:38	12/30/22 12:43	1

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Client Sample Results

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Client Sample ID: IL176-1(5-11)-122122

Lab Sample ID: 500-227215-6

Date Collected: 12/21/22 07:35

Matrix: Solid

Date Received: 12/21/22 14:40

Percent Solids: 89.0

Method: SW846 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		12/29/22 16:38	12/30/22 12:43	1
Zinc	0.15	J	0.50	0.020	mg/L		12/29/22 16:38	12/30/22 12:43	1

Method: SW846 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4300		11	4.4	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Antimony	<1.1		1.1	0.21	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Arsenic	1.4		0.54	0.19	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Barium	21		2.7	0.31	mg/Kg	☆	12/27/22 09:07	12/28/22 14:48	5
Beryllium	0.35		0.22	0.051	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Cadmium	0.092	J	0.11	0.020	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Calcium	95000		54	9.2	mg/Kg	☆	12/27/22 09:07	12/28/22 14:48	5
Chromium	7.1		0.54	0.27	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Cobalt	3.9		0.27	0.071	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Copper	10	B	0.54	0.15	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Iron	9400	B	54	28	mg/Kg	☆	12/27/22 09:07	12/28/22 14:48	5
Lead	5.0		0.27	0.13	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Magnesium	44000	B	27	13	mg/Kg	☆	12/27/22 09:07	12/28/22 14:48	5
Manganese	220		0.54	0.079	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Nickel	9.6		0.54	0.16	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Potassium	1000		27	9.6	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Selenium	<0.54		0.54	0.32	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Silver	0.16	J	0.27	0.070	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Sodium	320		54	8.0	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Thallium	<0.54		0.54	0.27	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Vanadium	12		0.27	0.064	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1
Zinc	25		1.1	0.48	mg/Kg	☆	12/27/22 09:07	12/28/22 11:22	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		12/29/22 11:40	12/30/22 08:48	1

Method: SW846 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		12/29/22 15:25	12/30/22 11:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0087	J	0.018	0.0058	mg/Kg	☆	12/29/22 14:50	12/30/22 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.2		0.2	0.2	SU			12/28/22 10:24	1

Definitions/Glossary

Client: Weston Solutions, Inc.
 Project/Site: IDOT - McHenry County - WO 048

Job ID: 500-227215-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Metals

Qualifier	Qualifier Description
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 exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

