



# 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: IL-83 (FAP 344), Calumet Sag Road at US-45 Office Phone Number, if available: \_\_\_\_\_

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

IL-83 (FAP 344), Calumet Sag Road at US-45 (IL 83 ROW)

City: Palos Park State: IL Zip Code: \_\_\_\_\_

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

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

Latitude: 41.683 Longitude: - 87.85497  
(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.): 422

### 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 83-3 THROUGH 83-7 WERE SAMPLED ADJACENT TO IL-83 (FAP 344), CALUMET SAG ROAD AT US-45. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT FOR SAMPLING DETAILS.

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

TESTAMERICA ANALYTICAL REPORT - JOB ID: 500-211231-1  
ALSO SEE FIGURE 4-1 OF THE FINAL PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

Company Name: Weston Solutions, Inc.  
Street Address: 300 Knightsbridge Parkway; Suite 360  
City: Lincolnshire State: IL Zip Code: 60069  
Phone: (224) 864-7200

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

18 February 2022  
Date:

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



**Summary Table of IL 83 ROW**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**IL-83 (FAP 344), Calumet Sag Road at US-45**  
**Palos Park, Cook County, Illinois**

Location	83-3	83-3	83-4	83-5	83-6	83-7	Soil Reference Concentrations <sup>A</sup>
Sample Date	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	
Field Sample ID	83-3(0-4)-012022	83-3(0-4)-012022D	83-4(0-4)-012022	83-5(0-2)-012022	83-6(0-4)-012022	83-7(0-4)-012022	
Lab Sample ID	500-211231-3	500-211231-4	500-211231-5	500-211231-6	500-211231-7	500-211231-8	
<b>Parameters</b>							
Laboratory pH (s.u.)	8.3	8.6	8.5	8.8	8.5	8.8	<6.25; >9.0
VOCs (mg/kg)	No Detections						
<b>SVOCs (mg/kg)</b>							
2-Methylnaphthalene	ND	ND	ND	0.025 J	0.0083 J	0.024 J	---
Anthracene	ND	0.011 J	ND	ND	ND	ND	12000
Benzo(a)anthracene	ND	0.013 J	0.007 J	0.0069 J	0.0097 J	0.006 J	0.9 / 1.1 / 1.8
Benzo(a)pyrene	ND	0.025 J	0.0079 J	ND	ND	ND	0.09 / 1.3 / 2.1
Benzo(b)fluoranthene	ND	0.035 J	0.015 J	ND	0.02 J	0.017 J	0.9 / 1.5 / 2.1
Benzo(g,h,i)perylene	ND	0.013 J	ND	ND	ND	ND	---
Chrysene	0.013 J	0.025 J	0.013 J	0.019 J	0.021 J	0.016 J	88
Fluoranthene	0.0073 J	0.02 J	0.013 J	0.012 J	0.015 J	0.0096 J	3100
Phenanthrene	0.017 J	0.013 J	0.013 J	0.033 J	0.021 J	0.027 J	---
Pyrene	0.015 J	0.03 J	0.014 J	0.017 J	0.023 J	0.017 J	2300
<b>Total Metals (mg/kg)</b>							
Aluminum, Total	12000 B	12000 B	9400 B	11000 B	11000 B	11000 B	---
Antimony, Total	ND	ND	ND	ND	ND	ND	5
Arsenic, Total	7	5.2	5.9	7.8	7.5	5.9	11.3 / 13
Barium, Total	36 J	64 J	36	43	51	44	1500
Beryllium, Total	0.88	0.96	0.71	0.86	0.85	0.82	22
Cadmium, Total	0.27 J	0.6 J	0.26 J	0.2 J	0.18 J	0.17 J	5.2
Calcium, Total	58000 B	39000 B	100000 B	48000 B	61000 B	54000 B	---
Chromium, Total	16	15	11	15	14	15	21
Cobalt, Total	16	12	11	13	12	12	20
Copper, Total	26	38	24	25	24	25	2900
Iron, Total	20000 B	18000 B	19000 B	22000 B	19000 B	18000 B	15000 / 15900
Lead, Total	14	14	9.8	14	13	12	107
Magnesium, Total	21000 B	15000 B	61000 B	18000 B	23000 B	20000 B	325000
Manganese, Total	380 B	280 B	290 B	330 B	360 B	300 B	630 / 636
Mercury, Total	0.053	0.033	0.019	0.031	0.028	0.028	0.89
Nickel, Total	33	34	26	30	30	29	100
Potassium, Total	2600	1700	2100	2400	2400	2600	---
Selenium, Total	ND	ND	ND	0.5 J	ND	ND	1.3
Silver, Total	0.23 J	ND	0.1 J	0.2 J	0.18 J	0.17 J	4.4
Sodium, Total	370	500	310	870	350	430	---
Thallium, Total	0.53 J	ND	ND	0.37 J	0.49 J	0.49 J	2.6
Vanadium, Total	18	18	15	18	16	17	550
Zinc, Total	63	87	53	62	54	56	5100
<b>TCLP Metals (mg/l)</b>							
Arsenic, TCLP	ND	ND	ND	ND	ND	ND	0.05
Barium, TCLP	0.49 J	0.41 J	0.38 J	0.72	0.49 J	0.56	2.0
Beryllium, TCLP	ND	ND	ND	ND	ND	ND	0.004
Cadmium, TCLP	ND	ND	ND	ND	ND	ND	0.005
Chromium, TCLP	ND	ND	ND	ND	ND	ND	0.1
Cobalt, TCLP	ND	ND	0.023 J	ND	ND	ND	1.00
Copper, TCLP	ND	ND	ND	ND	ND	ND	0.65
Iron, TCLP	0.2 J	ND	ND	ND	ND	0.24 J	5.0
Lead, TCLP	ND	ND	ND	ND	ND	ND	0.0075
Manganese, TCLP	1.3	1.2	1.2	0.36	0.88	0.95	0.15
Mercury, TCLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, TCLP	0.013 J	ND	0.019 J	0.01 J	ND	0.014 J	0.1
Selenium, TCLP	ND	ND	ND	ND	ND	ND	0.05
Silver, TCLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, TCLP	ND	0.023 J	0.029 J	0.061 J	0.11 J	0.043 J	5.0

**Summary Table of IL 83 ROW**  
**Comparison of Detected Constituents to Applicable Reference Concentrations**  
**Soil Analytical Results**  
**Illinois Department of Transportation**  
**IL-83 (FAP 344), Calumet Sag Road at US-45**  
**Palos Park, Cook County, Illinois**

Location	83-3	83-3	83-4	83-5	83-6	83-7	Soil Reference Concentrations <sup>A</sup>
Sample Date	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	
Field Sample ID	83-3(0-4)-012022	83-3(0-4)-012022D	83-4(0-4)-012022	83-5(0-2)-012022	83-6(0-4)-012022	83-7(0-4)-012022	
Lab Sample ID	500-211231-3	500-211231-4	500-211231-5	500-211231-6	500-211231-7	500-211231-8	
<b>Parameters</b>							
<b>SPLP Metals (mg/l)</b>							
Arsenic, SPLP	0.091	0.09	0.053	0.099	0.079	0.069	0.05
Barium, SPLP	0.64	0.68	0.51	0.79	0.68	0.77	2.0
Beryllium, SPLP	0.012	0.012	0.0089	0.014	0.012	0.014	0.004
Cadmium, SPLP	0.003 J	0.0036 J	0.0027 J	0.0029 J	0.0029 J	0.0027 J	0.005
Chromium, SPLP	0.21	0.21	0.15	0.24	0.24	0.24	0.1
Cobalt, SPLP	0.089	0.1	0.055	0.11	0.084	0.095	1.0
Copper, SPLP	0.25	0.26	0.17	0.33	0.26	0.29	0.65
Iron, SPLP	220	240	140	240	210	210	5.0
Lead, SPLP	0.13	0.15	0.074	0.098	0.12	0.1	0.0075
Manganese, SPLP	1.1	1.2	0.68	1.3	1.1	1.2	0.15
Mercury, SPLP	ND	ND	ND	ND	ND	ND	0.002
Nickel, SPLP	0.25	0.28	0.17	0.32	0.26	0.28	0.1
Selenium, SPLP	ND	ND	ND	ND	ND	ND	0.05
Silver, SPLP	ND	ND	ND	ND	ND	ND	0.05
Zinc, SPLP	0.58 J	3.7 J	0.6	0.66	2.2	0.78 J	5.0

**Notes:**

--- - not applicable or value not available.

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

J - Estimated concentration.

ND - Constituent not detected above the reporting limit.

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

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-211231-1  
Client Project/Site: IDOT - Palos Park - WO 032  
Revision: 1

For:  
Weston Solutions, Inc.  
300 Knightsbridge Parkway  
Suite 360  
Lincolnshire, Illinois 60069

Attn: Mr. Andris Slesers



Authorized for release by:  
2/7/2022 3:41:10 PM

Richard Wright, Senior Project Manager  
(708)746-0045  
[Richard.Wright@Eurofinset.com](mailto:Richard.Wright@Eurofinset.com)

### LINKS

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

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

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

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022**

**Lab Sample ID: 500-211231-3**

**Date Collected: 01/20/22 12:20**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 84.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Benzene	<0.0021		0.0021	0.00052	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Carbon disulfide	<0.0051		0.0051	0.0011	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Carbon tetrachloride	<0.0021		0.0021	0.00060	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Chloroform	<0.0021		0.0021	0.00071	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Chloromethane	<0.0051		0.0051	0.0021	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00057	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Dibromochloromethane	<0.0021		0.0021	0.00067	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,1-Dichloroethane	<0.0021		0.0021	0.00070	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,1-Dichloroethene	<0.0021		0.0021	0.00071	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00072	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Ethylbenzene	<0.0021		0.0021	0.00098	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Methylene Chloride	<0.0051		0.0051	0.0020	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Methyl Ethyl Ketone	<0.0051		0.0051	0.0023	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
methyl isobutyl ketone	<0.0051		0.0051	0.0015	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00060	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
trans-1,2-Dichloroethene	<0.0021		0.0021	0.00091	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00072	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00088	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Vinyl chloride	<0.0021	+	0.0021	0.00091	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	01/20/22 17:45	01/28/22 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	01/20/22 17:45	01/28/22 16:32	1
Dibromofluoromethane (Surr)	102		75 - 126	01/20/22 17:45	01/28/22 16:32	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	01/20/22 17:45	01/28/22 16:32	1
Toluene-d8 (Surr)	100		75 - 124	01/20/22 17:45	01/28/22 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
1,2-Dichlorobenzene	<0.19		0.19	0.045	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1

Eurofins Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022**

**Lab Sample ID: 500-211231-3**

Date Collected: 01/20/22 12:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.086	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2,4-Dichlorophenol	<0.37		0.37	0.089	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2,4-Dinitrophenol	<0.76		0.76	0.66	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2,4-Dinitrotoluene	<0.19		0.19	0.060	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2,6-Dinitrotoluene	<0.19		0.19	0.074	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2-Chlorophenol	<0.19		0.19	0.064	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2-Methylnaphthalene	<0.076		0.076	0.0069	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
2-Nitrophenol	<0.37		0.37	0.089	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
3 & 4 Methylphenol	<0.19		0.19	0.063	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
4,6-Dinitro-2-methylphenol	<0.76		0.76	0.30	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
4-Chloroaniline	<0.76		0.76	0.18	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.044	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
4-Nitrophenol	<0.76		0.76	0.36	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Anthracene	<0.037		0.037	0.0063	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Benzo[a]anthracene	<0.037		0.037	0.0050	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0073	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Benzo[b]fluoranthene	<0.037	*3	0.037	0.0081	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.069	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Carbazole	<0.19		0.19	0.094	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.037	0.010	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Diethyl phthalate	<0.19		0.19	0.064	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
<b>Fluoranthene</b>	<b>0.0073</b>	<b>J</b>	0.037	0.0070	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Fluorene	<0.037		0.037	0.0053	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Hexachlorobenzene	<0.076		0.076	0.0087	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Hexachlorobutadiene	<0.19		0.19	0.059	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Hexachlorocyclopentadiene	<0.76		0.76	0.22	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	☆	01/31/22 06:37	02/01/22 13:33	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022**

**Lab Sample ID: 500-211231-3**

Date Collected: 01/20/22 12:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0097	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
Naphthalene	<0.037		0.037	0.0058	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
Nitrobenzene	<0.037		0.037	0.0094	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
N-Nitrosodi-n-propylamine	<0.076		0.076	0.046	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
Pentachlorophenol	<0.76		0.76	0.60	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
<b>Phenanthrene</b>	<b>0.017</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
<b>Pyrene</b>	<b>0.015</b>	<b>J</b>	0.037	0.0074	mg/Kg	☼	01/31/22 06:37	02/01/22 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		31 - 143				01/31/22 06:37	02/01/22 13:33	1
2-Fluorobiphenyl (Surr)	63		43 - 145				01/31/22 06:37	02/01/22 13:33	1
2-Fluorophenol (Surr)	67		31 - 166				01/31/22 06:37	02/01/22 13:33	1
Nitrobenzene-d5 (Surr)	58		37 - 147				01/31/22 06:37	02/01/22 13:33	1
Phenol-d5 (Surr)	72		30 - 153				01/31/22 06:37	02/01/22 13:33	1
Terphenyl-d14 (Surr)	106		42 - 157				01/31/22 06:37	02/01/22 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/26/22 08:39	01/26/22 18:39	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		01/26/22 08:39	01/26/22 18:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/26/22 08:39	01/26/22 18:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/26/22 08:39	01/26/22 18:39	1
Chromium	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:39	1
Cobalt	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:39	1
Copper	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:39	1
<b>Iron</b>	<b>0.20</b>	<b>J</b>	0.40	0.20	mg/L		01/26/22 08:39	01/26/22 18:39	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/26/22 08:39	01/26/22 18:39	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:39	1
<b>Nickel</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:39	1
Selenium	<0.050		0.050	0.020	mg/L		01/26/22 08:39	01/26/22 18:39	1
Silver	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:39	1
Zinc	<0.50		0.50	0.020	mg/L		01/26/22 08:39	01/26/22 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.091</b>		0.050	0.010	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Barium</b>	<b>0.64</b>		0.50	0.050	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Beryllium</b>	<b>0.012</b>		0.0040	0.0040	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Cadmium</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0020	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Cobalt</b>	<b>0.089</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Copper</b>	<b>0.25</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Iron</b>	<b>220</b>		0.40	0.20	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Lead</b>	<b>0.13</b>		0.0075	0.0075	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Nickel</b>	<b>0.25</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 15:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/27/22 08:24	01/28/22 15:59	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022**

**Lab Sample ID: 500-211231-3**

Date Collected: 01/20/22 12:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 15:59	1
<b>Zinc</b>	<b>0.58</b>		0.50	0.020	mg/L		01/27/22 08:24	01/28/22 15:59	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>12000</b>	<b>B</b>	11	4.6	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Antimony</b>	<b>0.64</b>	<b>J B</b>	1.1	0.22	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Arsenic</b>	<b>7.0</b>		0.56	0.19	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Barium</b>	<b>36</b>		0.56	0.064	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Beryllium</b>	<b>0.88</b>		0.23	0.053	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Cadmium</b>	<b>0.27</b>	<b>B</b>	0.11	0.020	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Calcium</b>	<b>58000</b>	<b>B</b>	56	9.6	mg/Kg	☆	01/28/22 17:28	01/31/22 12:24	5
<b>Chromium</b>	<b>16</b>		0.56	0.28	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Cobalt</b>	<b>16</b>		0.28	0.074	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Copper</b>	<b>26</b>		0.56	0.16	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Iron</b>	<b>20000</b>	<b>B</b>	11	5.9	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Lead</b>	<b>14</b>		0.28	0.13	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.6	2.8	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Manganese</b>	<b>380</b>	<b>B</b>	0.56	0.082	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Nickel</b>	<b>33</b>		0.56	0.16	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Potassium</b>	<b>2600</b>		28	10	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Silver</b>	<b>0.23</b>	<b>J</b>	0.28	0.073	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Sodium</b>	<b>370</b>		56	8.3	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Thallium</b>	<b>0.53</b>	<b>J</b>	0.56	0.28	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Vanadium</b>	<b>18</b>		0.28	0.067	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1
<b>Zinc</b>	<b>63</b>		1.1	0.50	mg/Kg	☆	01/28/22 17:28	01/30/22 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 09:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 11:34	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.053</b>		0.018	0.0061	mg/Kg	☆	01/26/22 15:30	01/27/22 09:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.3</b>		0.2	0.2	SU			01/26/22 19:15	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022D**

**Lab Sample ID: 500-211231-4**

**Date Collected: 01/20/22 12:20**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 83.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0069	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Carbon disulfide	<0.0040		0.0040	0.00083	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Carbon tetrachloride	<0.0016		0.0016	0.00046	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Dibromochloromethane	<0.0016		0.0016	0.00052	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,2-Dichloroethane	<0.0040		0.0040	0.0012	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Ethylbenzene	<0.0016		0.0016	0.00076	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
2-Hexanone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Methyl Ethyl Ketone	<0.0040		0.0040	0.0018	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
methyl isobutyl ketone	<0.0040		0.0040	0.0012	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Styrene	<0.0016		0.0016	0.00048	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00070	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00068	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Vinyl chloride	<0.0016	+	0.0016	0.00070	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1
Xylenes, Total	<0.0032		0.0032	0.00051	mg/Kg	☼	01/20/22 17:45	01/28/22 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	01/20/22 17:45	01/28/22 16:58	1
Dibromofluoromethane (Surr)	102		75 - 126	01/20/22 17:45	01/28/22 16:58	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 134	01/20/22 17:45	01/28/22 16:58	1
Toluene-d8 (Surr)	99		75 - 124	01/20/22 17:45	01/28/22 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022D**

**Lab Sample ID: 500-211231-4**

Date Collected: 01/20/22 12:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
2-Nitrophenol	<0.39		0.39	0.092	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.31	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.051	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Acenaphthylene	<0.039		0.039	0.0051	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
<b>Anthracene</b>	<b>0.011</b>	<b>J</b>	0.039	0.0065	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
<b>Benzo[a]anthracene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0053	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
<b>Benzo[a]pyrene</b>	<b>0.025</b>	<b>J *3</b>	0.039	0.0076	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
<b>Benzo[b]fluoranthene</b>	<b>0.035</b>	<b>J *3</b>	0.039	0.0084	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
<b>Benzo[g,h,i]perylene</b>	<b>0.013</b>	<b>J *3</b>	0.039	0.013	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.071	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Butyl benzyl phthalate	<0.20		0.20	0.074	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
<b>Chrysene</b>	<b>0.025</b>	<b>J</b>	0.039	0.011	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0075	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Di-n-butyl phthalate	<0.20		0.20	0.059	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
<b>Fluoranthene</b>	<b>0.020</b>	<b>J</b>	0.039	0.0072	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Hexachlorobutadiene	<0.20		0.20	0.061	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Hexachlorocyclopentadiene	<0.79		0.79	0.22	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1
Hexachloroethane	<0.20		0.20	0.059	mg/Kg	✳	01/31/22 06:37	02/01/22 13:54	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022D**

**Lab Sample ID: 500-211231-4**

Date Collected: 01/20/22 12:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
Nitrobenzene	<0.039		0.039	0.0097	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
<b>Phenanthrene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0054	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
<b>Pyrene</b>	<b>0.030</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	01/31/22 06:37	02/01/22 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		31 - 143				01/31/22 06:37	02/01/22 13:54	1
2-Fluorobiphenyl (Surr)	81		43 - 145				01/31/22 06:37	02/01/22 13:54	1
2-Fluorophenol (Surr)	77		31 - 166				01/31/22 06:37	02/01/22 13:54	1
Nitrobenzene-d5 (Surr)	71		37 - 147				01/31/22 06:37	02/01/22 13:54	1
Phenol-d5 (Surr)	82		30 - 153				01/31/22 06:37	02/01/22 13:54	1
Terphenyl-d14 (Surr)	104		42 - 157				01/31/22 06:37	02/01/22 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/26/22 08:39	01/26/22 18:49	1
<b>Barium</b>	<b>0.41</b>	<b>J</b>	0.50	0.050	mg/L		01/26/22 08:39	01/26/22 18:49	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/26/22 08:39	01/26/22 18:49	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/26/22 08:39	01/26/22 18:49	1
Chromium	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:49	1
Cobalt	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:49	1
Copper	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:49	1
Iron	<0.40		0.40	0.20	mg/L		01/26/22 08:39	01/26/22 18:49	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/26/22 08:39	01/26/22 18:49	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:49	1
Nickel	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:49	1
Selenium	<0.050		0.050	0.020	mg/L		01/26/22 08:39	01/26/22 18:49	1
Silver	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:49	1
<b>Zinc</b>	<b>0.023</b>	<b>J</b>	0.50	0.020	mg/L		01/26/22 08:39	01/26/22 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.090</b>		0.050	0.010	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Barium</b>	<b>0.68</b>		0.50	0.050	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Beryllium</b>	<b>0.012</b>		0.0040	0.0040	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Cadmium</b>	<b>0.0036</b>	<b>J</b>	0.0050	0.0020	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Chromium</b>	<b>0.21</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Cobalt</b>	<b>0.10</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Copper</b>	<b>0.26</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Iron</b>	<b>240</b>		0.40	0.20	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Lead</b>	<b>0.15</b>		0.0075	0.0075	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Nickel</b>	<b>0.28</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:02	1
Selenium	<0.050		0.050	0.020	mg/L		01/27/22 08:24	01/28/22 16:02	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-3(0-4)-012022D**

**Lab Sample ID: 500-211231-4**

Date Collected: 01/20/22 12:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 83.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:02	1
<b>Zinc</b>	<b>3.7</b>		0.50	0.020	mg/L		01/27/22 08:24	01/28/22 16:02	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>12000</b>	<b>B</b>	12	4.7	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Antimony</b>	<b>0.59</b>	<b>J B</b>	1.2	0.22	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Arsenic</b>	<b>5.2</b>		0.58	0.20	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Barium</b>	<b>64</b>		0.58	0.066	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Beryllium</b>	<b>0.96</b>		0.23	0.054	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Cadmium</b>	<b>0.60</b>	<b>B</b>	0.12	0.021	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Calcium</b>	<b>39000</b>	<b>B</b>	58	9.7	mg/Kg	☆	01/28/22 17:29	01/31/22 12:27	5
<b>Chromium</b>	<b>15</b>		0.58	0.28	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Cobalt</b>	<b>12</b>		0.29	0.075	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Copper</b>	<b>38</b>		0.58	0.16	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	12	6.0	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Lead</b>	<b>14</b>		0.29	0.13	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Magnesium</b>	<b>15000</b>	<b>B</b>	5.8	2.9	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Manganese</b>	<b>280</b>	<b>B</b>	0.58	0.083	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Nickel</b>	<b>34</b>		0.58	0.17	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Potassium</b>	<b>1700</b>		29	10	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
Selenium	<0.58		0.58	0.34	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
Silver	<0.29		0.29	0.074	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Sodium</b>	<b>500</b>		58	8.5	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
Thallium	<0.58		0.58	0.29	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Vanadium</b>	<b>18</b>		0.29	0.068	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1
<b>Zinc</b>	<b>87</b>		1.2	0.50	mg/Kg	☆	01/28/22 17:29	01/30/22 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 11:37	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.033</b>		0.019	0.0064	mg/Kg	☆	01/26/22 15:30	01/27/22 09:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.6</b>		0.2	0.2	SU			01/26/22 19:18	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-4(0-4)-012022**

**Lab Sample ID: 500-211231-5**

Date Collected: 01/20/22 12:40

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.022		0.022	0.0094	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Benzene	<0.0022		0.0022	0.00055	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Bromodichloromethane	<0.0022		0.0022	0.00044	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Bromoform	<0.0022		0.0022	0.00063	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Bromomethane	<0.0054		0.0054	0.0020	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Carbon disulfide	<0.0054		0.0054	0.0011	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Carbon tetrachloride	<0.0022		0.0022	0.00063	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Chlorobenzene	<0.0022		0.0022	0.00080	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Chloroethane	<0.0054		0.0054	0.0016	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Chloroform	<0.0022		0.0022	0.00075	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Chloromethane	<0.0054		0.0054	0.0022	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
cis-1,2-Dichloroethene	<0.0022		0.0022	0.00060	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
cis-1,3-Dichloropropene	<0.0022		0.0022	0.00065	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Dibromochloromethane	<0.0022		0.0022	0.00071	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,1-Dichloroethane	<0.0022		0.0022	0.00074	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,2-Dichloroethane	<0.0054		0.0054	0.0017	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,1-Dichloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,2-Dichloropropane	<0.0022		0.0022	0.00056	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,3-Dichloropropane, Total	<0.0022		0.0022	0.00076	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Ethylbenzene	<0.0022		0.0022	0.0010	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
2-Hexanone	<0.0054		0.0054	0.0017	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Methylene Chloride	<0.0054		0.0054	0.0021	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Methyl Ethyl Ketone	<0.0054		0.0054	0.0024	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
methyl isobutyl ketone	<0.0054		0.0054	0.0016	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Methyl tert-butyl ether	<0.0022		0.0022	0.00063	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Styrene	<0.0022		0.0022	0.00065	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,1,2,2-Tetrachloroethane	<0.0022		0.0022	0.00069	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Tetrachloroethene	<0.0022		0.0022	0.00074	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Toluene	<0.0022		0.0022	0.00055	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
trans-1,2-Dichloroethene	<0.0022		0.0022	0.00096	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
trans-1,3-Dichloropropene	<0.0022		0.0022	0.00076	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,1,1-Trichloroethane	<0.0022		0.0022	0.00073	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
1,1,2-Trichloroethane	<0.0022		0.0022	0.00093	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Trichloroethene	<0.0022		0.0022	0.00073	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Vinyl chloride	<0.0022	+	0.0022	0.00096	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1
Xylenes, Total	<0.0043		0.0043	0.00069	mg/Kg	✳	01/20/22 17:45	01/28/22 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	01/20/22 17:45	01/28/22 17:24	1
Dibromofluoromethane (Surr)	99		75 - 126	01/20/22 17:45	01/28/22 17:24	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	01/20/22 17:45	01/28/22 17:24	1
Toluene-d8 (Surr)	97		75 - 124	01/20/22 17:45	01/28/22 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.20		0.20	0.042	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
1,2-Dichlorobenzene	<0.20		0.20	0.047	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
1,3-Dichlorobenzene	<0.20		0.20	0.044	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
1,4-Dichlorobenzene	<0.20		0.20	0.050	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2,2'-oxybis[1-chloropropane]	<0.20		0.20	0.045	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-4(0-4)-012022**

**Lab Sample ID: 500-211231-5**

**Date Collected: 01/20/22 12:40**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.39		0.39	0.089	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2,4,6-Trichlorophenol	<0.39		0.39	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2,4-Dichlorophenol	<0.39		0.39	0.093	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2,4-Dimethylphenol	<0.39		0.39	0.15	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2,4-Dinitrophenol	<0.79		0.79	0.69	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2,4-Dinitrotoluene	<0.20		0.20	0.062	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2,6-Dinitrotoluene	<0.20		0.20	0.077	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2-Chloronaphthalene	<0.20		0.20	0.043	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2-Chlorophenol	<0.20		0.20	0.067	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2-Methylnaphthalene	<0.079		0.079	0.0072	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2-Methylphenol	<0.20		0.20	0.063	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2-Nitroaniline	<0.20		0.20	0.053	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
2-Nitrophenol	<0.39		0.39	0.093	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
3 & 4 Methylphenol	<0.20		0.20	0.065	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
3,3'-Dichlorobenzidine	<0.20		0.20	0.055	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
3-Nitroaniline	<0.39		0.39	0.12	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
4,6-Dinitro-2-methylphenol	<0.79		0.79	0.32	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
4-Bromophenyl phenyl ether	<0.20		0.20	0.052	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
4-Chloro-3-methylphenol	<0.39		0.39	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
4-Chloroaniline	<0.79		0.79	0.18	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
4-Chlorophenyl phenyl ether	<0.20		0.20	0.046	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
4-Nitroaniline	<0.39		0.39	0.16	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
4-Nitrophenol	<0.79		0.79	0.37	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Acenaphthene	<0.039		0.039	0.0070	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Acenaphthylene	<0.039		0.039	0.0052	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Anthracene	<0.039		0.039	0.0065	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
<b>Benzo[a]anthracene</b>	<b>0.0070</b>	<b>J</b>	0.039	0.0053	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
<b>Benzo[a]pyrene</b>	<b>0.0079</b>	<b>J *3</b>	0.039	0.0076	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
<b>Benzo[b]fluoranthene</b>	<b>0.015</b>	<b>J *3</b>	0.039	0.0085	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Benzo[g,h,i]perylene	<0.039	*3	0.039	0.013	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Benzo[k]fluoranthene	<0.039	*3	0.039	0.012	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Bis(2-chloroethoxy)methane	<0.20		0.20	0.040	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Bis(2-chloroethyl)ether	<0.20		0.20	0.059	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Bis(2-ethylhexyl) phthalate	<0.20		0.20	0.072	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Butyl benzyl phthalate	<0.20		0.20	0.075	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Carbazole	<0.20		0.20	0.098	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
<b>Chrysene</b>	<b>0.013</b>	<b>J</b>	0.039	0.011	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Dibenz(a,h)anthracene	<0.039	*3	0.039	0.0076	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Dibenzofuran	<0.20		0.20	0.046	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Diethyl phthalate	<0.20		0.20	0.066	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Dimethyl phthalate	<0.20		0.20	0.051	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Di-n-butyl phthalate	<0.20		0.20	0.060	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Di-n-octyl phthalate	<0.20		0.20	0.064	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
<b>Fluoranthene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0073	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Fluorene	<0.039		0.039	0.0055	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Hexachlorobenzene	<0.079		0.079	0.0091	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Hexachlorobutadiene	<0.20		0.20	0.062	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Hexachlorocyclopentadiene	<0.79		0.79	0.23	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1
Hexachloroethane	<0.20		0.20	0.060	mg/Kg	✳	01/31/22 06:37	02/01/22 14:56	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-4(0-4)-012022**

**Lab Sample ID: 500-211231-5**

Date Collected: 01/20/22 12:40

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.039	*3	0.039	0.010	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
Isophorone	<0.20		0.20	0.044	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
Naphthalene	<0.039		0.039	0.0060	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
Nitrobenzene	<0.039		0.039	0.0098	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
N-Nitrosodi-n-propylamine	<0.079		0.079	0.048	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
N-Nitrosodiphenylamine	<0.20		0.20	0.046	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
Pentachlorophenol	<0.79		0.79	0.63	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
<b>Phenanthrene</b>	<b>0.013</b>	<b>J</b>	0.039	0.0055	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
Phenol	<0.20		0.20	0.087	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1
<b>Pyrene</b>	<b>0.014</b>	<b>J</b>	0.039	0.0078	mg/Kg	☼	01/31/22 06:37	02/01/22 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		31 - 143	01/31/22 06:37	02/01/22 14:56	1
2-Fluorobiphenyl (Surr)	77		43 - 145	01/31/22 06:37	02/01/22 14:56	1
2-Fluorophenol (Surr)	77		31 - 166	01/31/22 06:37	02/01/22 14:56	1
Nitrobenzene-d5 (Surr)	65		37 - 147	01/31/22 06:37	02/01/22 14:56	1
Phenol-d5 (Surr)	86		30 - 153	01/31/22 06:37	02/01/22 14:56	1
Terphenyl-d14 (Surr)	102		42 - 157	01/31/22 06:37	02/01/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/26/22 08:39	01/26/22 18:52	1
<b>Barium</b>	<b>0.38</b>	<b>J</b>	0.50	0.050	mg/L		01/26/22 08:39	01/26/22 18:52	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/26/22 08:39	01/26/22 18:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/26/22 08:39	01/26/22 18:52	1
Chromium	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:52	1
<b>Cobalt</b>	<b>0.023</b>	<b>J</b>	0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:52	1
Copper	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:52	1
Iron	<0.40		0.40	0.20	mg/L		01/26/22 08:39	01/26/22 18:52	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/26/22 08:39	01/26/22 18:52	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:52	1
<b>Nickel</b>	<b>0.019</b>	<b>J</b>	0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:52	1
Selenium	<0.050		0.050	0.020	mg/L		01/26/22 08:39	01/26/22 18:52	1
Silver	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:52	1
<b>Zinc</b>	<b>0.029</b>	<b>J</b>	0.50	0.020	mg/L		01/26/22 08:39	01/26/22 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.053</b>		0.050	0.010	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Barium</b>	<b>0.51</b>		0.50	0.050	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Beryllium</b>	<b>0.0089</b>		0.0040	0.0040	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Chromium</b>	<b>0.15</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Cobalt</b>	<b>0.055</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Copper</b>	<b>0.17</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Iron</b>	<b>140</b>		0.40	0.20	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Lead</b>	<b>0.074</b>		0.0075	0.0075	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Manganese</b>	<b>0.68</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Nickel</b>	<b>0.17</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:05	1
Selenium	<0.050		0.050	0.020	mg/L		01/27/22 08:24	01/28/22 16:05	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-4(0-4)-012022**

**Lab Sample ID: 500-211231-5**

Date Collected: 01/20/22 12:40

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 82.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:05	1
<b>Zinc</b>	<b>0.60</b>		0.50	0.020	mg/L		01/27/22 08:24	01/28/22 16:05	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>9400</b>	<b>B</b>	11	4.7	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Antimony</b>	<b>0.64</b>	<b>J B</b>	1.1	0.22	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Arsenic</b>	<b>5.9</b>		0.57	0.20	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Barium</b>	<b>36</b>		0.57	0.065	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Beryllium</b>	<b>0.71</b>		0.23	0.054	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Cadmium</b>	<b>0.26</b>	<b>B</b>	0.11	0.021	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Calcium</b>	<b>100000</b>	<b>B</b>	57	9.7	mg/Kg	☆	01/28/22 17:30	01/31/22 12:37	5
<b>Chromium</b>	<b>11</b>		0.57	0.28	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Cobalt</b>	<b>11</b>		0.29	0.075	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Copper</b>	<b>24</b>		0.57	0.16	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	57	30	mg/Kg	☆	01/28/22 17:30	01/31/22 12:37	5
<b>Lead</b>	<b>9.8</b>		0.29	0.13	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Magnesium</b>	<b>61000</b>	<b>B</b>	29	14	mg/Kg	☆	01/28/22 17:30	01/31/22 12:37	5
<b>Manganese</b>	<b>290</b>	<b>B</b>	0.57	0.083	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Nickel</b>	<b>26</b>		0.57	0.17	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Potassium</b>	<b>2100</b>		29	10	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
Selenium	<0.57		0.57	0.34	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Silver</b>	<b>0.10</b>	<b>J</b>	0.29	0.074	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Sodium</b>	<b>310</b>		57	8.5	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
Thallium	<0.57		0.57	0.29	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Vanadium</b>	<b>15</b>		0.29	0.068	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1
<b>Zinc</b>	<b>53</b>		1.1	0.50	mg/Kg	☆	01/28/22 17:30	01/30/22 23:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 11:39	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.019</b>		0.018	0.0061	mg/Kg	☆	01/26/22 15:30	01/27/22 09:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.5</b>		0.2	0.2	SU			01/26/22 19:20	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-5(0-2)-012022**

**Lab Sample ID: 500-211231-6**

Date Collected: 01/20/22 12:55

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0070	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Bromomethane	<0.0040		0.0040	0.0015	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Carbon disulfide	<0.0040		0.0040	0.00084	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Carbon tetrachloride	<0.0016		0.0016	0.00047	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Chlorobenzene	<0.0016		0.0016	0.00059	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Chloroethane	<0.0040		0.0040	0.0012	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Chloromethane	<0.0040		0.0040	0.0016	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,1-Dichloroethane	<0.0016		0.0016	0.00055	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,2-Dichloroethane	<0.0040		0.0040	0.0013	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,1-Dichloroethene	<0.0016		0.0016	0.00055	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00056	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Ethylbenzene	<0.0016		0.0016	0.00077	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
2-Hexanone	<0.0040		0.0040	0.0013	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Methylene Chloride	<0.0040		0.0040	0.0016	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Methyl Ethyl Ketone	<0.0040		0.0040	0.0018	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
methyl isobutyl ketone	<0.0040		0.0040	0.0012	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00047	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00051	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00071	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00056	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00054	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00069	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Trichloroethene	<0.0016		0.0016	0.00054	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Vinyl chloride	<0.0016	+	0.0016	0.00071	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	✱	01/20/22 17:45	01/28/22 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		75 - 131	01/20/22 17:45	01/28/22 17:50	1
Dibromofluoromethane (Surr)	98		75 - 126	01/20/22 17:45	01/28/22 17:50	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 134	01/20/22 17:45	01/28/22 17:50	1
Toluene-d8 (Surr)	100		75 - 124	01/20/22 17:45	01/28/22 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.041	mg/Kg	✱	01/31/22 06:37	02/01/22 15:17	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	✱	01/31/22 06:37	02/01/22 15:17	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	✱	01/31/22 06:37	02/01/22 15:17	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	✱	01/31/22 06:37	02/01/22 15:17	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	✱	01/31/22 06:37	02/01/22 15:17	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-5(0-2)-012022**

**Lab Sample ID: 500-211231-6**

Date Collected: 01/20/22 12:55

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.088	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
<b>2-Methylnaphthalene</b>	<b>0.025</b>	<b>J</b>	0.077	0.0071	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Anthracene	<0.038		0.038	0.0064	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
<b>Benzo[a]anthracene</b>	<b>0.0069</b>	<b>J</b>	0.038	0.0052	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Benzo[a]pyrene	<0.038	*3	0.038	0.0074	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Benzo[b]fluoranthene	<0.038	*3	0.038	0.0083	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Benzo[g,h,i]perylene	<0.038	*3	0.038	0.012	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Benzo[k]fluoranthene	<0.038	*3	0.038	0.011	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
<b>Chrysene</b>	<b>0.019</b>	<b>J</b>	0.038	0.010	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Dibenz(a,h)anthracene	<0.038	*3	0.038	0.0074	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
<b>Fluoranthene</b>	<b>0.012</b>	<b>J</b>	0.038	0.0071	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Fluorene	<0.038		0.038	0.0054	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Hexachlorocyclopentadiene	<0.77		0.77	0.22	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	01/31/22 06:37	02/01/22 15:17	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-5(0-2)-012022**

**Lab Sample ID: 500-211231-6**

Date Collected: 01/20/22 12:55

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.038	*3	0.038	0.0099	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
<b>Phenanthrene</b>	<b>0.033</b>	<b>J</b>	0.038	0.0053	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1
<b>Pyrene</b>	<b>0.017</b>	<b>J</b>	0.038	0.0076	mg/Kg	☼	01/31/22 06:37	02/01/22 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		31 - 143	01/31/22 06:37	02/01/22 15:17	1
2-Fluorobiphenyl (Surr)	78		43 - 145	01/31/22 06:37	02/01/22 15:17	1
2-Fluorophenol (Surr)	74		31 - 166	01/31/22 06:37	02/01/22 15:17	1
Nitrobenzene-d5 (Surr)	69		37 - 147	01/31/22 06:37	02/01/22 15:17	1
Phenol-d5 (Surr)	76		30 - 153	01/31/22 06:37	02/01/22 15:17	1
Terphenyl-d14 (Surr)	99		42 - 157	01/31/22 06:37	02/01/22 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/26/22 08:39	01/26/22 18:56	1
<b>Barium</b>	<b>0.72</b>		0.50	0.050	mg/L		01/26/22 08:39	01/26/22 18:56	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/26/22 08:39	01/26/22 18:56	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/26/22 08:39	01/26/22 18:56	1
Chromium	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:56	1
Cobalt	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:56	1
Copper	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:56	1
Iron	<0.40		0.40	0.20	mg/L		01/26/22 08:39	01/26/22 18:56	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/26/22 08:39	01/27/22 12:49	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:56	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:56	1
Selenium	<0.050		0.050	0.020	mg/L		01/26/22 08:39	01/26/22 18:56	1
Silver	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:56	1
<b>Zinc</b>	<b>0.061</b>	<b>J</b>	0.50	0.020	mg/L		01/26/22 08:39	01/26/22 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.099</b>		0.050	0.010	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Barium</b>	<b>0.79</b>		0.50	0.050	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Beryllium</b>	<b>0.014</b>		0.0040	0.0040	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Cadmium</b>	<b>0.0029</b>	<b>J</b>	0.0050	0.0020	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Chromium</b>	<b>0.24</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Cobalt</b>	<b>0.11</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Copper</b>	<b>0.33</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Iron</b>	<b>240</b>		0.40	0.20	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Lead</b>	<b>0.098</b>		0.0075	0.0075	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Manganese</b>	<b>1.3</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:08	1
<b>Nickel</b>	<b>0.32</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:08	1
Selenium	<0.050		0.050	0.020	mg/L		01/27/22 08:24	01/28/22 16:08	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-5(0-2)-012022**

**Lab Sample ID: 500-211231-6**

Date Collected: 01/20/22 12:55

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 85.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:08	1
Zinc	0.66		0.50	0.020	mg/L		01/27/22 08:24	01/28/22 16:08	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	B	11	4.6	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Antimony	0.55	J B	1.1	0.22	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Arsenic	7.8		0.56	0.19	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Barium	43		0.56	0.064	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Beryllium	0.86		0.22	0.052	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Cadmium	0.20	B	0.11	0.020	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Calcium	48000	B	56	9.4	mg/Kg	☆	01/28/22 17:32	01/31/22 12:40	5
Chromium	15		0.56	0.28	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Cobalt	13		0.28	0.073	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Copper	25		0.56	0.16	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Iron	22000	B	11	5.8	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Lead	14		0.28	0.13	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Magnesium	18000	B	5.6	2.8	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Manganese	330	B	0.56	0.081	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Nickel	30		0.56	0.16	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Potassium	2400		28	9.9	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Selenium	0.50	J	0.56	0.33	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Silver	0.20	J	0.28	0.072	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Sodium	870		56	8.2	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Thallium	0.37	J	0.56	0.28	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Vanadium	18		0.28	0.066	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1
Zinc	62		1.1	0.49	mg/Kg	☆	01/28/22 17:32	01/30/22 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 09:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 11:41	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.018	0.0059	mg/Kg	☆	01/26/22 15:30	01/27/22 09:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.2	0.2	SU			01/26/22 19:23	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-6(0-4)-012022**

**Lab Sample ID: 500-211231-7**

**Date Collected: 01/20/22 13:10**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.017		0.017	0.0073	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Benzene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Bromodichloromethane	<0.0017		0.0017	0.00034	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Bromoform	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Carbon disulfide	<0.0042		0.0042	0.00087	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Carbon tetrachloride	<0.0017		0.0017	0.00048	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Chlorobenzene	<0.0017		0.0017	0.00061	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Chloroethane	<0.0042		0.0042	0.0012	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Chloroform	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,1-Dichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,1-Dichloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,2-Dichloropropane	<0.0017		0.0017	0.00043	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Ethylbenzene	<0.0017		0.0017	0.00080	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Methylene Chloride	<0.0042		0.0042	0.0016	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Methyl Ethyl Ketone	<0.0042		0.0042	0.0018	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
methyl isobutyl ketone	<0.0042		0.0042	0.0012	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00049	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Styrene	<0.0017		0.0017	0.00050	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00053	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Tetrachloroethene	<0.0017		0.0017	0.00057	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Toluene	<0.0017		0.0017	0.00042	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00074	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00058	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00056	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00071	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Trichloroethene	<0.0017		0.0017	0.00056	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Vinyl chloride	<0.0017	+	0.0017	0.00074	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1
Xylenes, Total	<0.0033		0.0033	0.00053	mg/Kg	☼	01/20/22 17:45	01/28/22 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		75 - 131	01/20/22 17:45	01/28/22 18:16	1
Dibromofluoromethane (Surr)	99		75 - 126	01/20/22 17:45	01/28/22 18:16	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 134	01/20/22 17:45	01/28/22 18:16	1
Toluene-d8 (Surr)	104		75 - 124	01/20/22 17:45	01/28/22 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.043	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-6(0-4)-012022**

**Lab Sample ID: 500-211231-7**

**Date Collected: 01/20/22 13:10**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.084	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2-Chloronaphthalene	<0.18		0.18	0.041	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2-Chlorophenol	<0.18		0.18	0.063	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
<b>2-Methylnaphthalene</b>	<b>0.0083</b>	<b>J</b>	0.074	0.0067	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
2-Nitrophenol	<0.36		0.36	0.087	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Acenaphthene	<0.036		0.036	0.0066	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Anthracene	<0.036		0.036	0.0061	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
<b>Benzo[a]anthracene</b>	<b>0.0097</b>	<b>J</b>	0.036	0.0049	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Benzo[a]pyrene	<0.036	*3	0.036	0.0071	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
<b>Benzo[b]fluoranthene</b>	<b>0.020</b>	<b>J *3</b>	0.036	0.0079	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Benzo[g,h,i]perylene	<0.036	*3	0.036	0.012	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Benzo[k]fluoranthene	<0.036	*3	0.036	0.011	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.067	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Butyl benzyl phthalate	<0.18		0.18	0.070	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Carbazole	<0.18		0.18	0.092	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
<b>Chrysene</b>	<b>0.021</b>	<b>J</b>	0.036	0.010	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Dibenz(a,h)anthracene	<0.036	*3	0.036	0.0071	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
<b>Fluoranthene</b>	<b>0.015</b>	<b>J</b>	0.036	0.0068	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Fluorene	<0.036		0.036	0.0052	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Hexachlorobutadiene	<0.18		0.18	0.058	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Hexachlorocyclopentadiene	<0.74		0.74	0.21	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	✱	01/31/22 06:37	02/01/22 15:38	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-6(0-4)-012022**

**Lab Sample ID: 500-211231-7**

**Date Collected: 01/20/22 13:10**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.036	*3	0.036	0.0095	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
Nitrobenzene	<0.036		0.036	0.0092	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
<b>Phenanthrene</b>	<b>0.021</b>	<b>J</b>	0.036	0.0051	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
<b>Pyrene</b>	<b>0.023</b>	<b>J</b>	0.036	0.0073	mg/Kg	☼	01/31/22 06:37	02/01/22 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		31 - 143				01/31/22 06:37	02/01/22 15:38	1
2-Fluorobiphenyl (Surr)	74		43 - 145				01/31/22 06:37	02/01/22 15:38	1
2-Fluorophenol (Surr)	66		31 - 166				01/31/22 06:37	02/01/22 15:38	1
Nitrobenzene-d5 (Surr)	63		37 - 147				01/31/22 06:37	02/01/22 15:38	1
Phenol-d5 (Surr)	72		30 - 153				01/31/22 06:37	02/01/22 15:38	1
Terphenyl-d14 (Surr)	113		42 - 157				01/31/22 06:37	02/01/22 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/26/22 08:39	01/26/22 18:59	1
<b>Barium</b>	<b>0.49</b>	<b>J</b>	0.50	0.050	mg/L		01/26/22 08:39	01/26/22 18:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/26/22 08:39	01/26/22 18:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/26/22 08:39	01/26/22 18:59	1
Chromium	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:59	1
Cobalt	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:59	1
Copper	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:59	1
Iron	<0.40		0.40	0.20	mg/L		01/26/22 08:39	01/26/22 18:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/26/22 08:39	01/26/22 18:59	1
<b>Manganese</b>	<b>0.88</b>		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:59	1
Nickel	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:59	1
Selenium	<0.050		0.050	0.020	mg/L		01/26/22 08:39	01/26/22 18:59	1
Silver	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 18:59	1
<b>Zinc</b>	<b>0.11</b>	<b>J</b>	0.50	0.020	mg/L		01/26/22 08:39	01/26/22 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.079</b>		0.050	0.010	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Barium</b>	<b>0.68</b>		0.50	0.050	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Beryllium</b>	<b>0.012</b>		0.0040	0.0040	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Cadmium</b>	<b>0.0029</b>	<b>J</b>	0.0050	0.0020	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Chromium</b>	<b>0.24</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Cobalt</b>	<b>0.084</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Copper</b>	<b>0.26</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Iron</b>	<b>210</b>		0.40	0.20	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Nickel</b>	<b>0.26</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:11	1
Selenium	<0.050		0.050	0.020	mg/L		01/27/22 08:24	01/28/22 16:11	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-6(0-4)-012022**

**Lab Sample ID: 500-211231-7**

Date Collected: 01/20/22 13:10

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:11	1
<b>Zinc</b>	<b>2.2</b>		0.50	0.020	mg/L		01/27/22 08:24	01/28/22 16:11	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>11000</b>	<b>B</b>	11	4.6	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Antimony</b>	<b>0.31</b>	<b>J B</b>	1.1	0.22	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Arsenic</b>	<b>7.5</b>		0.56	0.19	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Barium</b>	<b>51</b>		0.56	0.064	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Beryllium</b>	<b>0.85</b>		0.23	0.053	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Cadmium</b>	<b>0.18</b>	<b>B</b>	0.11	0.020	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Calcium</b>	<b>61000</b>	<b>B</b>	56	9.6	mg/Kg	☆	01/28/22 17:33	01/31/22 12:44	5
<b>Chromium</b>	<b>14</b>		0.56	0.28	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Cobalt</b>	<b>12</b>		0.28	0.074	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Copper</b>	<b>24</b>		0.56	0.16	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Iron</b>	<b>19000</b>	<b>B</b>	11	5.9	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Lead</b>	<b>13</b>		0.28	0.13	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Magnesium</b>	<b>23000</b>	<b>B</b>	5.6	2.8	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Manganese</b>	<b>360</b>	<b>B</b>	0.56	0.082	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Nickel</b>	<b>30</b>		0.56	0.16	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Potassium</b>	<b>2400</b>		28	10	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Silver</b>	<b>0.18</b>	<b>J</b>	0.28	0.073	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Sodium</b>	<b>350</b>		56	8.4	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.56	0.28	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Vanadium</b>	<b>16</b>		0.28	0.067	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1
<b>Zinc</b>	<b>54</b>		1.1	0.50	mg/Kg	☆	01/28/22 17:33	01/30/22 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 09:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 11:43	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.028</b>		0.017	0.0057	mg/Kg	☆	01/26/22 15:30	01/27/22 09:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.5</b>		0.2	0.2	SU			01/26/22 19:25	1

# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-7(0-4)-012022**

**Lab Sample ID: 500-211231-8**

**Date Collected: 01/20/22 13:20**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018		0.018	0.0077	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Bromoform	<0.0018		0.0018	0.00051	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Carbon disulfide	<0.0044		0.0044	0.00091	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Carbon tetrachloride	<0.0018		0.0018	0.00051	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Chlorobenzene	<0.0018		0.0018	0.00065	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Chloroform	<0.0018		0.0018	0.00061	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00049	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Dibromochloromethane	<0.0018		0.0018	0.00057	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,1-Dichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,1-Dichloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,2-Dichloropropane	<0.0018		0.0018	0.00045	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Ethylbenzene	<0.0018		0.0018	0.00084	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Methyl Ethyl Ketone	<0.0044		0.0044	0.0020	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
methyl isobutyl ketone	<0.0044		0.0044	0.0013	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Styrene	<0.0018		0.0018	0.00053	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00056	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Toluene	<0.0018		0.0018	0.00044	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00078	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00075	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Trichloroethene	<0.0018		0.0018	0.00059	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Vinyl chloride	<0.0018	+	0.0018	0.00078	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1
Xylenes, Total	<0.0035		0.0035	0.00056	mg/Kg	☼	01/20/22 17:45	01/28/22 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		75 - 131	01/20/22 17:45	01/28/22 18:42	1
Dibromofluoromethane (Surr)	104		75 - 126	01/20/22 17:45	01/28/22 18:42	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 134	01/20/22 17:45	01/28/22 18:42	1
Toluene-d8 (Surr)	98		75 - 124	01/20/22 17:45	01/28/22 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-7(0-4)-012022**

**Lab Sample ID: 500-211231-8**

**Date Collected: 01/20/22 13:20**

**Matrix: Solid**

**Date Received: 01/20/22 14:55**

**Percent Solids: 85.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
<b>2-Methylnaphthalene</b>	<b>0.024</b>	<b>J</b>	0.075	0.0068	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2-Methylphenol	<0.19		0.19	0.060	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
3-Nitroaniline	<0.37		0.37	0.12	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Acenaphthene	<0.037		0.037	0.0067	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Acenaphthylene	<0.037		0.037	0.0049	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Anthracene	<0.037		0.037	0.0062	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
<b>Benzo[a]anthracene</b>	<b>0.0060</b>	<b>J</b>	0.037	0.0050	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Benzo[a]pyrene	<0.037	*3	0.037	0.0072	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
<b>Benzo[b]fluoranthene</b>	<b>0.017</b>	<b>J *3</b>	0.037	0.0080	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Benzo[g,h,i]perylene	<0.037	*3	0.037	0.012	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Benzo[k]fluoranthene	<0.037	*3	0.037	0.011	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.068	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Butyl benzyl phthalate	<0.19		0.19	0.071	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Carbazole	<0.19		0.19	0.093	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
<b>Chrysene</b>	<b>0.016</b>	<b>J</b>	0.037	0.010	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Dibenz(a,h)anthracene	<0.037	*3	0.037	0.0072	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Dibenzofuran	<0.19		0.19	0.044	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Dimethyl phthalate	<0.19		0.19	0.049	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Di-n-butyl phthalate	<0.19		0.19	0.057	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Di-n-octyl phthalate	<0.19		0.19	0.061	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
<b>Fluoranthene</b>	<b>0.0096</b>	<b>J</b>	0.037	0.0069	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Fluorene	<0.037		0.037	0.0052	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Hexachlorocyclopentadiene	<0.75		0.75	0.21	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1
Hexachloroethane	<0.19		0.19	0.057	mg/Kg	✳	01/31/22 06:37	02/01/22 15:58	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-7(0-4)-012022**

**Lab Sample ID: 500-211231-8**

Date Collected: 01/20/22 13:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<0.037	*3	0.037	0.0096	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
Naphthalene	<0.037		0.037	0.0057	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
Nitrobenzene	<0.037		0.037	0.0093	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
Pentachlorophenol	<0.75		0.75	0.60	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
<b>Phenanthrene</b>	<b>0.027</b>	<b>J</b>	0.037	0.0052	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
Phenol	<0.19		0.19	0.083	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1
<b>Pyrene</b>	<b>0.017</b>	<b>J</b>	0.037	0.0074	mg/Kg	☼	01/31/22 06:37	02/01/22 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		31 - 143	01/31/22 06:37	02/01/22 15:58	1
2-Fluorobiphenyl (Surr)	72		43 - 145	01/31/22 06:37	02/01/22 15:58	1
2-Fluorophenol (Surr)	67		31 - 166	01/31/22 06:37	02/01/22 15:58	1
Nitrobenzene-d5 (Surr)	63		37 - 147	01/31/22 06:37	02/01/22 15:58	1
Phenol-d5 (Surr)	71		30 - 153	01/31/22 06:37	02/01/22 15:58	1
Terphenyl-d14 (Surr)	106		42 - 157	01/31/22 06:37	02/01/22 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		01/26/22 08:39	01/26/22 19:02	1
<b>Barium</b>	<b>0.56</b>		0.50	0.050	mg/L		01/26/22 08:39	01/26/22 19:02	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		01/26/22 08:39	01/26/22 19:02	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		01/26/22 08:39	01/26/22 19:02	1
Chromium	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 19:02	1
Cobalt	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 19:02	1
Copper	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 19:02	1
<b>Iron</b>	<b>0.24</b>	<b>J</b>	0.40	0.20	mg/L		01/26/22 08:39	01/26/22 19:02	1
Lead	<0.0075		0.0075	0.0075	mg/L		01/26/22 08:39	01/26/22 19:02	1
<b>Manganese</b>	<b>0.95</b>		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 19:02	1
<b>Nickel</b>	<b>0.014</b>	<b>J</b>	0.025	0.010	mg/L		01/26/22 08:39	01/26/22 19:02	1
Selenium	<0.050		0.050	0.020	mg/L		01/26/22 08:39	01/26/22 19:02	1
Silver	<0.025		0.025	0.010	mg/L		01/26/22 08:39	01/26/22 19:02	1
<b>Zinc</b>	<b>0.043</b>	<b>J</b>	0.50	0.020	mg/L		01/26/22 08:39	01/26/22 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.069</b>		0.050	0.010	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Barium</b>	<b>0.77</b>		0.50	0.050	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Beryllium</b>	<b>0.014</b>		0.0040	0.0040	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Cadmium</b>	<b>0.0027</b>	<b>J</b>	0.0050	0.0020	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Chromium</b>	<b>0.24</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Cobalt</b>	<b>0.095</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Copper</b>	<b>0.29</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Iron</b>	<b>210</b>		0.40	0.20	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Lead</b>	<b>0.10</b>		0.0075	0.0075	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Manganese</b>	<b>1.2</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Nickel</b>	<b>0.28</b>		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:14	1
Selenium	<0.050		0.050	0.020	mg/L		01/27/22 08:24	01/28/22 16:14	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

**Client Sample ID: 83-7(0-4)-012022**

**Lab Sample ID: 500-211231-8**

Date Collected: 01/20/22 13:20

Matrix: Solid

Date Received: 01/20/22 14:55

Percent Solids: 85.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		01/27/22 08:24	01/28/22 16:14	1
<b>Zinc</b>	<b>0.78</b>	<b>F1</b>	0.50	0.020	mg/L		01/27/22 08:24	01/28/22 16:14	1

## Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>11000</b>	<b>B</b>	11	4.5	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Antimony</b>	<b>0.45</b>	<b>J B</b>	1.1	0.21	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Arsenic</b>	<b>5.9</b>		0.55	0.19	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Barium</b>	<b>44</b>		0.55	0.063	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Beryllium</b>	<b>0.82</b>		0.22	0.051	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Cadmium</b>	<b>0.17</b>	<b>B</b>	0.11	0.020	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Calcium</b>	<b>54000</b>	<b>B</b>	55	9.3	mg/Kg	✱	01/28/22 17:34	01/31/22 12:47	5
<b>Chromium</b>	<b>15</b>		0.55	0.27	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Cobalt</b>	<b>12</b>		0.28	0.072	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Copper</b>	<b>25</b>		0.55	0.15	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Iron</b>	<b>18000</b>	<b>B</b>	11	5.7	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Lead</b>	<b>12</b>		0.28	0.13	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Magnesium</b>	<b>20000</b>	<b>B</b>	5.5	2.7	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Manganese</b>	<b>300</b>	<b>B</b>	0.55	0.080	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Nickel</b>	<b>29</b>		0.55	0.16	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Potassium</b>	<b>2600</b>		28	9.7	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
Selenium	<0.55		0.55	0.32	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Silver</b>	<b>0.17</b>	<b>J</b>	0.28	0.071	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Sodium</b>	<b>430</b>		55	8.1	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Thallium</b>	<b>0.49</b>	<b>J</b>	0.55	0.27	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Vanadium</b>	<b>17</b>		0.28	0.065	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1
<b>Zinc</b>	<b>56</b>		1.1	0.48	mg/Kg	✱	01/28/22 17:34	01/30/22 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		01/26/22 11:10	01/27/22 11:45	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.028</b>		0.018	0.0060	mg/Kg	✱	01/26/22 15:30	01/27/22 10:13	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.8</b>		0.2	0.2	SU			01/26/22 19:27	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Palos Park - WO 032

Job ID: 500-211231-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
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.
α	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

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# Chain of Custody Record

537859



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <u>A. Staszewski</u>		Site Contact: <u>T. Walk</u>		Date: <u>1-20-22</u>		COC No	
Company Name: <u>Western Solutions, Inc</u>		Tel/Email: <u>224-884-7201</u>		Lab Contact: <u>D Wright</u>		Carrier		1 of 1 COCs	
Address: <u>300 Wrightsbridge Parkway</u>		Analysis Turnaround Time							
City/State/Zip: <u>Lincolnshire / IL / 60067</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: <u>standard</u>							
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ VOCs _____ SVOCs _____ Total Metals _____ TCLP/SPL/ metals _____ PH _____ 500-211231 COC							
Project Name: <u>INDT-016.032</u>									
Site: <u>Palos Park - IL</u>									
P O #									
Sampler: _____		For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No: <u>500-211231</u>							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		<u>83-1(0-2)-012022</u>	<u>1-20-22 1135</u>	<u>G</u>	<u>S</u>	<u>6</u>			
		<u>83-2(0-2)-012022</u>	<u>1-20-22 1150</u>	<u>G</u>	<u>S</u>	<u>6</u>			
		<u>83-3(0-4)-012022</u>	<u>1-20-22 1222</u>	<u>G</u>	<u>S</u>	<u>6</u>			
		<u>83-3(0-4)-012022(1)</u>	<u>1-20-22 1220</u>	<u>G</u>	<u>S</u>	<u>5</u>			
		<u>83-4(0-4)-012022</u>	<u>1-20-22 1240</u>	<u>G</u>	<u>S</u>	<u>6</u>			
		<u>83-5(0-2)-012022</u>	<u>1-20-22 1255</u>	<u>G</u>	<u>S</u>	<u>6</u>			
		<u>83-6(0-4)-012022</u>	<u>1-20-22 1310</u>	<u>G</u>	<u>S</u>	<u>6</u>			
		<u>83-7(0-4)-012022</u>	<u>1-20-22 1320</u>	<u>G</u>	<u>S</u>	<u>6</u>			
		<u>7.0 daily 1-20-22</u>							
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other		Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)							
Possible Hazard Identification		Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input checked="" type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Code/Temp (°C) Obs'd <u>4.2</u> Corr'd <u>4.1</u>		Therm ID No			
Relinquished by <u>T. Walk</u>		Company <u>Western</u>		Date/Time <u>1-20-22/1410</u>		Received by <u>[Signature]</u>		Company <u>ETA</u>	
Relinquished by <u>[Signature]</u>		Company <u>ETA</u>		Date/Time <u>1/20/22 1455</u>		Received by <u>[Signature]</u>		Company _____	
Relinquished by <u>[Signature]</u>		Company _____		Date/Time _____		Received in Laboratory by <u>[Signature]</u>		Company <u>ETA</u>	
						Date/Time <u>1/20/22 1455</u>			

## APPENDIX C

### ANALYTICAL DATA TABLES

**Abbreviations:**

B	Analyte was detected in the blank and sample.
J	Estimated value.
J+	Estimated value, biased high.
J-	Estimated value, biased low.
R	Rejected as a result of data validation.
U	Analyte not detected; reporting limit is presented.



**Table C-1**  
**Summary of VOCs - Soil**  
**Illinois Department of Transportation**  
**FAI 80 - Interstate 80 (I-80) from Ridge Road to US 30**  
**Will County, Illinois**

Location	83-1	83-2	83-3	83-3	83-4	83-5	83-6	83-7
Sample Date	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022
Field Sample ID	83-1(0-2)-012022	83-2(0-2)-012022	83-3(0-4)-012022	83-3(0-4)-012022D	83-4(0-4)-012022	83-5(0-2)-012022	83-6(0-4)-012022	83-7(0-4)-012022
Lab Sample ID	500-211231-1	500-211231-2	500-211231-3	500-211231-4	500-211231-5	500-211231-6	500-211231-7	500-211231-8
<b>VOCs (mg/kg)</b>								
1,1,1-Trichloroethane	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
1,1,2,2-Tetrachloroethane	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
1,1,2-Trichloroethane	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
1,1-Dichloroethane	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
1,1-Dichloroethene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
1,2-Dichloroethane	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
1,2-Dichloropropane	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
1,3-Dichloropropene, Total	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
2-Hexanone	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
4-Methyl-2-pentanone	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
Acetone	0.026 U	0.018 U	0.021 U	0.016 U	0.022 U	0.016 U	0.017 U	0.018 U
Benzene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Bromodichloromethane	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Bromoform	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Bromomethane	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
Carbon disulfide	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
Carbon tetrachloride	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Chlorobenzene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Chloroethane	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
Chloroform	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Chloromethane	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
cis-1,2-Dichloroethene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
cis-1,3-Dichloropropene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Dibromochloromethane	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Ethylbenzene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Methyl ethyl ketone	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
Methyl tert-butyl ether	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Methylene chloride	0.0065 U	0.0044 U	0.0051 U	0.004 U	0.0054 U	0.004 U	0.0042 U	0.0044 U
Styrene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Tetrachloroethene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Toluene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
trans-1,2-Dichloroethene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
trans-1,3-Dichloropropene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Trichloroethene	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Vinyl Chloride	0.0026 U	0.0018 U	0.0021 U	0.0016 U	0.0022 U	0.0016 U	0.0017 U	0.0018 U
Xylene (Total)	0.0052 U	0.0035 U	0.0041 U	0.0032 U	0.0043 U	0.0032 U	0.0033 U	0.0035 U

**Table C-2**  
**Summary of SVOCs - Soil**  
**Illinois Department of Transportation**  
**FAI 80 - Interstate 80 (I-80) from Ridge Road to US 30**  
**Will County, Illinois**

Location	83-1	83-2	83-3	83-3	83-4	83-5
Sample Date	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022
Field Sample ID	83-1(0-2)-012022	83-2(0-2)-012022	83-3(0-4)-012022	83-3(0-4)-012022D	83-4(0-4)-012022	83-5(0-2)-012022
Lab Sample ID	500-211231-1	500-211231-2	500-211231-3	500-211231-4	500-211231-5	500-211231-6
<b>SVOCs (mg/kg)</b>						
1,2,4-Trichlorobenzene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
1,2-Dichlorobenzene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
1,3-Dichlorobenzene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
1,4-Dichlorobenzene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2,2-oxybis[1-chloropropane]	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2,4,5-Trichlorophenol	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
2,4,6-Trichlorophenol	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
2,4-Dichlorophenol	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
2,4-Dimethylphenol	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
2,4-Dinitrophenol	0.75 U	0.76 U	0.76 U	0.79 U	0.79 U	0.77 U
2,4-Dinitrotoluene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2,6-Dinitrotoluene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2-Chloronaphthalene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2-Chlorophenol	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2-Methylnaphthalene	0.075 U	0.076 U	0.076 U	0.079 U	0.079 U	0.025 J
2-Methylphenol	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2-Nitroaniline	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
2-Nitrophenol	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
3 & 4 Methylphenol	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
3,3-Dichlorobenzidine	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
3-Nitroaniline	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
4,6-Dinitro-2-methylphenol	0.75 U	0.76 U	0.76 U	0.79 U	0.79 U	0.77 U
4-Bromophenyl-phenylether	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
4-Chloro-3-methylphenol	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
4-Chloroaniline	0.75 U	0.76 U	0.76 U	0.79 U	0.79 U	0.77 U
4-Chlorophenyl-phenylether	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
4-Nitroaniline	0.37 U	0.37 U	0.37 U	0.39 U	0.39 U	0.38 U
4-Nitrophenol	0.75 U	0.76 U	0.76 U	0.79 U	0.79 U	0.77 U
Acenaphthene	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.038 U
Acenaphthylene	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.038 U
Anthracene	0.037 U	0.037 U	0.037 U	0.011 J	0.039 U	0.038 U
Benzo(a)anthracene	0.014 J	0.01 J	0.037 U	0.013 J	0.007 J	0.0069 J
Benzo(a)pyrene	0.019 J	0.016 J	0.037 UJ	0.025 J	0.0079 J	0.038 UJ
Benzo(b)fluoranthene	0.034 J	0.026 J	0.037 UJ	0.035 J	0.015 J	0.038 UJ
Benzo(g,h,i)perylene	0.037 UJ	0.037 UJ	0.037 UJ	0.013 J	0.039 UJ	0.038 UJ
Benzo(k)fluoranthene	0.037 UJ	0.037 UJ	0.037 UJ	0.039 UJ	0.039 UJ	0.038 UJ
bis(2-Chloroethoxy)methane	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
bis(2-Chloroethyl)ether	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
bis(2-Ethylhexyl)phthalate	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Butyl benzyl phthalate	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Carbazole	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Chrysene	0.023 J	0.021 J	0.013 J	0.025 J	0.013 J	0.019 J
Dibenzo(a,h)anthracene	0.037 UJ	0.037 UJ	0.037 UJ	0.039 UJ	0.039 UJ	0.038 UJ
Dibenzofuran	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Diethylphthalate	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Dimethyl phthalate	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Di-N-Butyl phthalate	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Di-N-Octyl phthalate	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Fluoranthene	0.021 J	0.016 J	0.0073 J	0.02 J	0.013 J	0.012 J
Fluorene	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.038 U
Hexachlorobenzene	0.075 U	0.076 U	0.076 U	0.079 U	0.079 U	0.077 U
Hexachlorobutadiene	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Hexachlorocyclopentadiene	0.75 U	0.76 U	0.76 U	0.79 U	0.79 U	0.77 U
Hexachloroethane	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Indeno(1,2,3-cd)pyrene	0.037 UJ	0.037 UJ	0.037 UJ	0.039 UJ	0.039 UJ	0.038 UJ
Isophorone	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Naphthalene	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.038 U
Nitrobenzene	0.037 U	0.037 U	0.037 U	0.039 U	0.039 U	0.038 U
N-Nitroso-di-N-propylamine	0.075 U	0.076 U	0.076 U	0.079 U	0.079 U	0.077 U
N-Nitrosodiphenylamine	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Pentachlorophenol	0.75 U	0.76 U	0.76 U	0.79 U	0.79 U	0.77 U
Phenanthrene	0.016 J	0.018 J	0.017 J	0.013 J	0.013 J	0.033 J
Phenol	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U
Pyrene	0.023 J	0.02 J	0.015 J	0.03 J	0.014 J	0.017 J

**Table C-2**  
**Summary of SVOCs - Soil**  
**Illinois Department of Transportation**  
**FAI 80 - Interstate 80 (I-80) from Ridge Road to US 30**  
**Will County, Illinois**

Location	83-6	83-7
Sample Date	1/20/2022	1/20/2022
Field Sample ID	83-6(0-4)-012022	83-7(0-4)-012022
Lab Sample ID	500-211231-7	500-211231-8
<b>SVOCs (mg/kg)</b>		
1,2,4-Trichlorobenzene	0.18 U	0.19 U
1,2-Dichlorobenzene	0.18 U	0.19 U
1,3-Dichlorobenzene	0.18 U	0.19 U
1,4-Dichlorobenzene	0.18 U	0.19 U
2,2-oxybis[1-chloropropane]	0.18 U	0.19 U
2,4,5-Trichlorophenol	0.36 U	0.37 U
2,4,6-Trichlorophenol	0.36 U	0.37 U
2,4-Dichlorophenol	0.36 U	0.37 U
2,4-Dimethylphenol	0.36 U	0.37 U
2,4-Dinitrophenol	0.74 U	0.75 U
2,4-Dinitrotoluene	0.18 U	0.19 U
2,6-Dinitrotoluene	0.18 U	0.19 U
2-Chloronaphthalene	0.18 U	0.19 U
2-Chlorophenol	0.18 U	0.19 U
2-Methylnaphthalene	0.0083 J	0.024 J
2-Methylphenol	0.18 U	0.19 U
2-Nitroaniline	0.18 U	0.19 U
2-Nitrophenol	0.36 U	0.37 U
3 & 4 Methylphenol	0.18 U	0.19 U
3,3-Dichlorobenzidine	0.18 U	0.19 U
3-Nitroaniline	0.36 U	0.37 U
4,6-Dinitro-2-methylphenol	0.74 U	0.75 U
4-Bromophenyl-phenylether	0.18 U	0.19 U
4-Chloro-3-methylphenol	0.36 U	0.37 U
4-Chloroaniline	0.74 U	0.75 U
4-Chlorophenyl-phenylether	0.18 U	0.19 U
4-Nitroaniline	0.36 U	0.37 U
4-Nitrophenol	0.74 U	0.75 U
Acenaphthene	0.036 U	0.037 U
Acenaphthylene	0.036 U	0.037 U
Anthracene	0.036 U	0.037 U
Benzo(a)anthracene	0.0097 J	0.006 J
Benzo(a)pyrene	0.036 UJ	0.037 UJ
Benzo(b)fluoranthene	0.02 J	0.017 J
Benzo(g,h,i)perylene	0.036 UJ	0.037 UJ
Benzo(k)fluoranthene	0.036 UJ	0.037 UJ
bis(2-Chloroethoxy)methane	0.18 U	0.19 U
bis(2-Chloroethyl)ether	0.18 U	0.19 U
bis(2-Ethylhexyl)phthalate	0.18 U	0.19 U
Butyl benzyl phthalate	0.18 U	0.19 U
Carbazole	0.18 U	0.19 U
Chrysene	0.021 J	0.016 J
Dibenzo(a,h)anthracene	0.036 UJ	0.037 UJ
Dibenzofuran	0.18 U	0.19 U
Diethylphthalate	0.18 U	0.19 U
Dimethyl phthalate	0.18 U	0.19 U
Di-N-Butyl phthalate	0.18 U	0.19 U
Di-N-Octyl phthalate	0.18 U	0.19 U
Fluoranthene	0.015 J	0.0096 J
Fluorene	0.036 U	0.037 U
Hexachlorobenzene	0.074 U	0.075 U
Hexachlorobutadiene	0.18 U	0.19 U
Hexachlorocyclopentadiene	0.74 U	0.75 U
Hexachloroethane	0.18 U	0.19 U
Indeno(1,2,3-cd)pyrene	0.036 UJ	0.037 UJ
Isophorone	0.18 U	0.19 U
Naphthalene	0.036 U	0.037 U
Nitrobenzene	0.036 U	0.037 U
N-Nitroso-di-N-propylamine	0.074 U	0.075 U
N-Nitrosodiphenylamine	0.18 U	0.19 U
Pentachlorophenol	0.74 U	0.75 U
Phenanthrene	0.021 J	0.027 J
Phenol	0.18 U	0.19 U
Pyrene	0.023 J	0.017 J

**Table C-3**  
**Summary of Inorganics - Soil**  
**Illinois Department of Transportation**  
**FAI 80 - Interstate 80 (I-80) from Ridge Road to US 30**  
**Will County, Illinois**

Location	83-1	83-2	83-3	83-3	83-4	83-5	83-6	83-7
Sample Date	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022
Field Sample ID	83-1(0-2)-012022	83-2(0-2)-012022	83-3(0-4)-012022	83-3(0-4)-012022D	83-4(0-4)-012022	83-5(0-2)-012022	83-6(0-4)-012022	83-7(0-4)-012022
Lab Sample ID	500-211231-1	500-211231-2	500-211231-3	500-211231-4	500-211231-5	500-211231-6	500-211231-7	500-211231-8
<b>Parameters</b>								
Laboratory pH (s.u.)	9.2	9.3	8.3	8.6	8.5	8.8	8.5	8.8
<b>Total Metals (mg/kg)</b>								
Aluminum, Total	9300 B	11000 B	12000 B	12000 B	9400 B	11000 B	11000 B	11000 B
Antimony, Total	1.1 U	1.1 UJ	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
Arsenic, Total	11	7.1 J	7	5.2	5.9	7.8	7.5	5.9
Barium, Total	50	40 J	36 J	64 J	36	43	51	44
Beryllium, Total	1.2	0.87	0.88	0.96	0.71	0.86	0.85	0.82
Cadmium, Total	0.34 J	0.19 J	0.27 J	0.6 J	0.26 J	0.2 J	0.18 J	0.17 J
Calcium, Total	60000 B	61000 B	58000 B	39000 B	100000 B	48000 B	61000 B	54000 B
Chromium, Total	12	14 J	16	15	11	15	14	15
Cobalt, Total	9.7	11	16	12	11	13	12	12
Copper, Total	27	24 J	26	38	24	25	24	25
Iron, Total	21000 B	19000 B	20000 B	18000 B	19000 B	22000 B	19000 B	18000 B
Lead, Total	20	14 J	14	14	9.8	14	13	12
Magnesium, Total	22000 B	22000 B	21000 B	15000 B	61000 B	18000 B	23000 B	20000 B
Manganese, Total	650 B	360 J	380 B	280 B	290 B	330 B	360 B	300 B
Mercury, Total	0.024	0.031	0.053	0.033	0.019	0.031	0.028	0.028
Nickel, Total	24	26 J	33	34	26	30	30	29
Potassium, Total	1200	2300 J	2600	1700	2100	2400	2400	2600
Selenium, Total	0.36 J	0.55 U	0.56 U	0.58 U	0.57 U	0.5 J	0.56 U	0.55 U
Silver, Total	0.2 J	0.21 J	0.23 J	0.29 U	0.1 J	0.2 J	0.18 J	0.17 J
Sodium, Total	730	590 J	370	500	310	870	350	430
Thallium, Total	0.53 J	0.55 UJ	0.53 J	0.58 U	0.57 U	0.37 J	0.49 J	0.49 J
Vanadium, Total	15	16 J	18	18	15	18	16	17
Zinc, Total	82	59 J	63	87	53	62	54	56
<b>TCLP Metals (mg/l)</b>								
Arsenic, TCLP	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Barium, TCLP	0.26 J	0.29 J	0.49 J	0.41 J	0.38 J	0.72	0.49 J	0.56
Beryllium, TCLP	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium, TCLP	0.005 U	0.0032 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chromium, TCLP	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Cobalt, TCLP	0.025 U	0.049	0.025 U	0.025 U	0.023 J	0.025 U	0.025 U	0.025 U
Copper, TCLP	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Iron, TCLP	0.4 U	0.21 J	0.2 J	0.4 U	0.4 U	0.4 U	0.4 U	0.24 J
Lead, TCLP	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Manganese, TCLP	0.46	6.7	1.3	1.2	1.2	0.36	0.88	0.95
Mercury, TCLP	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel, TCLP	0.025 U	0.055	0.013 J	0.025 U	0.019 J	0.01 J	0.025 U	0.014 J
Selenium, TCLP	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver, TCLP	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Zinc, TCLP	0.5 U	0.075 J	0.5 U	0.023 J	0.029 J	0.061 J	0.11 J	0.043 J

**Table C-3**  
**Summary of Inorganics - Soil**  
**Illinois Department of Transportation**  
**FAI 80 - Interstate 80 (I-80) from Ridge Road to US 30**  
**Will County, Illinois**

Location	83-1	83-2	83-3	83-3	83-4	83-5	83-6	83-7
Sample Date	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022	1/20/2022
Field Sample ID	83-1(0-2)-012022	83-2(0-2)-012022	83-3(0-4)-012022	83-3(0-4)-012022D	83-4(0-4)-012022	83-5(0-2)-012022	83-6(0-4)-012022	83-7(0-4)-012022
Lab Sample ID	500-211231-1	500-211231-2	500-211231-3	500-211231-4	500-211231-5	500-211231-6	500-211231-7	500-211231-8
Parameters								
<b>SPLP Metals (mg/l)</b>								
Arsenic, SPLP	0.056	0.065	0.091	0.09	0.053	0.099	0.079	0.069
Barium, SPLP	0.36 J	0.66	0.64	0.68	0.51	0.79	0.68	0.77
Beryllium, SPLP	0.0092	0.012	0.012	0.012	0.0089	0.014	0.012	0.014
Cadmium, SPLP	0.0027 J	0.0029 J	0.003 J	0.0036 J	0.0027 J	0.0029 J	0.0029 J	0.0027 J
Chromium, SPLP	0.13	0.19	0.21	0.21	0.15	0.24	0.24	0.24
Cobalt, SPLP	0.056	0.077	0.089	0.1	0.055	0.11	0.084	0.095
Copper, SPLP	0.15	0.2	0.25	0.26	0.17	0.33	0.26	0.29
Iron, SPLP	150	190	220	240	140	240	210	210
Lead, SPLP	0.11	0.11	0.13	0.15	0.074	0.098	0.12	0.1
Manganese, SPLP	1.7	1.6	1.1	1.2	0.68	1.3	1.1	1.2
Mercury, SPLP	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel, SPLP	0.15	0.22	0.25	0.28	0.17	0.32	0.26	0.28
Selenium, SPLP	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Silver, SPLP	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Zinc, SPLP	0.69	0.58	0.58 J	3.7 J	0.6	0.66	2.2	0.78 J