



# Illinois Environmental Protection Agency

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 324 (IL 23) - State Street over Ditch at 2nd Ave. Office Phone Number, if available: \_\_\_\_\_

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

805 N. State Street (ISGS Site No. 3246V-3)

City: Marengo State: IL Zip Code: \_\_\_\_\_

County: McHenry Township: \_\_\_\_\_

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

Latitude: 42.25703 Longitude: -88.60838  
(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.): 120

### 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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@illinois.gov

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

Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

LOCATION R3-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3246V-3. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PSI 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]:

EUROFINS ANALYTICAL REPORTS - JOB IDs: 500-217985-1. ALSO SEE FIGURE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

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

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Aug 21, 2023  
Date:



**Summary Table - Residence Property (ISGS Site No. 3246V-3)  
 FAP 324: IL 23 (State Street) Over Ditch at 2nd Avenue  
 Marengo, McHenry County, Illinois**

Location	Reference	R3-1
Field Sample ID	Concentrations	R3-1(0-5)-061022
Sample Date	(MAC Table)	6/10/2022
ISGS Site No		3246V-3
Laboratory pH	<6.25, >9.0	8.1
<b>VOCs</b>		<b>No Exceedances</b>
<b>SVOCs (mg/kg)</b>		
Benzo(a)pyrene	0.09 / 11 / 2.1	0.044
Benzo(b)fluoranthene	0.9 / 13 / 2.1	0.072
Dibenzo(a,h)anthracene	0.09 / 1.0 / 0.42	0.0085 J
<b>Total Metals (mg/kg)</b>		
Aluminum, Total	---	5300
Antimony, Total	5	ND
Arsenic, Total	11.3 / 13.0	1.4
Barium, Total	1500	29
Beryllium, Total	22	0.24
Cadmium, Total	5.2	ND
Calcium, Total	---	7400 B
Chromium, Total	21	9.3
Cobalt, Total	20	2.2
Copper, Total	2900	4.1
Iron, Total	15000 / 15900	6100
Lead, Total	107	17
Magnesium, Total	325000	4400
Manganese, Total	630 / 636	62
Mercury, Total	0.89	0.032
Nickel, Total	100	5.6
Potassium, Total	---	540
Selenium, Total	1.3	ND
Silver, Total	4.4	0.12 J
Sodium, Total	---	350
Thallium, Total	2.6	ND
Vanadium, Total	550	13
Zinc, Total	5100	28
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	0.05	ND
Barium, TCLP	2	0.32 J
Beryllium, TCLP	0.004	ND
Cadmium, TCLP	0.005	ND
Chromium, TCLP	0.1	ND
Cobalt, TCLP	1	ND
Copper, TCLP	0.65	ND
Iron, TCLP	5	ND
Lead, TCLP	0.0075	ND
Manganese, TCLP	0.15	0.6
Mercury, TCLP	0.002	ND
Nickel, TCLP	0.1	ND
Selenium, TCLP	0.05	ND
Silver, TCLP	0.05	ND
Zinc, TCLP	5	0.25 J
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.05	0.023 J
Barium, SPLP	2	0.26 J
Beryllium, SPLP	0.004	ND
Cadmium, SPLP	0.005	ND
Chromium, SPLP	0.1	0.052
Cobalt, SPLP	1	0.012 J
Copper, SPLP	0.65	0.052
Iron, SPLP	5	38
Lead, SPLP	0.0075	0.27
Manganese, SPLP	0.15	0.54
Mercury, SPLP	0.002	ND
Nickel, SPLP	0.1	0.038
Selenium, SPLP	0.05	ND
Silver, SPLP	0.05	ND
Zinc, SPLP	5	0.43 J

**Notes:**

--- - not applicable or value not available.

Reference concentrations from MAC Table include background values for Chicago corporate limits and MSA counties, as applicable.

ND - Constituent not detected above the reporting limit.

B - Compound was found in the blank and the investigative sample.

J - Estimated concentration.

  Yellow shaded values indicate concentration exceeds MAC Table Reference Concentration.

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-217985-1

Client Project/Site: IDOT - Marengo - WO 037  
Revision: 1

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

Attn: Mr. Andris Slesers



Authorized for release by:  
7/20/2022 4:42:47 PM

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

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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 - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R3-1(0-5)-061022**

**Lab Sample ID: 500-217985-2**

**Date Collected: 06/10/22 11:40**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 86.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019	*1	0.019	0.0083	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Bromodichloromethane	<0.0019		0.0019	0.00039	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Bromoform	<0.0019		0.0019	0.00055	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Bromomethane	<0.0047	*+	0.0047	0.0018	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Carbon disulfide	<0.0047		0.0047	0.00099	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Carbon tetrachloride	<0.0019	*+	0.0019	0.00055	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Chlorobenzene	<0.0019		0.0019	0.00070	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Chloroethane	<0.0047	*+	0.0047	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Chloroform	<0.0019		0.0019	0.00066	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00053	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00057	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Dibromochloromethane	<0.0019		0.0019	0.00062	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,1-Dichloroethane	<0.0019		0.0019	0.00065	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,1-Dichloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,2-Dichloropropane	<0.0019		0.0019	0.00049	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00067	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Ethylbenzene	<0.0019		0.0019	0.00091	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Methylene Chloride	<0.0047		0.0047	0.0019	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Methyl Ethyl Ketone	<0.0047	*1	0.0047	0.0021	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
methyl isobutyl ketone	<0.0047		0.0047	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00056	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Styrene	<0.0019		0.0019	0.00057	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00061	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Tetrachloroethene	<0.0019		0.0019	0.00065	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Toluene	<0.0019		0.0019	0.00048	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00084	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00067	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00081	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Trichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Vinyl chloride	<0.0019		0.0019	0.00084	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1
Xylenes, Total	<0.0038		0.0038	0.00061	mg/Kg	☼	06/11/22 14:51	06/17/22 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	06/11/22 14:51	06/17/22 15:43	1
Dibromofluoromethane (Surr)	120		75 - 126	06/11/22 14:51	06/17/22 15:43	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 134	06/11/22 14:51	06/17/22 15:43	1
Toluene-d8 (Surr)	97		75 - 124	06/11/22 14:51	06/17/22 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1

Eurofins Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R3-1(0-5)-061022**

**Lab Sample ID: 500-217985-2**

**Date Collected: 06/10/22 11:40**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 86.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2,4-Dinitrophenol	<0.73		0.73	0.64	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2,6-Dinitrotoluene	<0.18		0.18	0.071	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2-Methylnaphthalene	<0.073		0.073	0.0067	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
2-Nitrophenol	<0.36		0.36	0.085	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
4,6-Dinitro-2-methylphenol	<0.73		0.73	0.29	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
4-Nitrophenol	<0.73		0.73	0.34	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Acenaphthene	<0.036		0.036	0.0065	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Acenaphthylene	<0.036		0.036	0.0048	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Anthracene	<0.036		0.036	0.0060	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Benzo[a]anthracene</b>	<b>0.027</b>	<b>J</b>	0.036	0.0049	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Benzo[a]pyrene</b>	<b>0.044</b>		0.036	0.0070	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Benzo[b]fluoranthene</b>	<b>0.072</b>		0.036	0.0078	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Benzo[g,h,i]perylene</b>	<b>0.018</b>	<b>J</b>	0.036	0.012	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Benzo[k]fluoranthene</b>	<b>0.014</b>	<b>J</b>	0.036	0.011	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Chrysene</b>	<b>0.039</b>		0.036	0.0099	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Dibenz(a,h)anthracene</b>	<b>0.0085</b>	<b>J</b>	0.036	0.0070	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Fluoranthene</b>	<b>0.067</b>		0.036	0.0067	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Fluorene	<0.036		0.036	0.0051	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Hexachlorobenzene	<0.073		0.073	0.0084	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Hexachlorocyclopentadiene	<0.73	*	0.73	0.21	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Hexachloroethane	<0.18		0.18	0.055	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1

Euofins Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R3-1(0-5)-061022**

**Lab Sample ID: 500-217985-2**

**Date Collected: 06/10/22 11:40**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 86.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.027</b>	<b>J</b>	0.036	0.0094	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Naphthalene	<0.036		0.036	0.0056	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Nitrobenzene	<0.036		0.036	0.0090	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Phenanthrene</b>	<b>0.024</b>	<b>J</b>	0.036	0.0050	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Phenol	<0.18		0.18	0.080	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
<b>Pyrene</b>	<b>0.054</b>		0.036	0.0072	mg/Kg	☼	06/17/22 14:22	06/21/22 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		31 - 143				06/17/22 14:22	06/21/22 18:30	1
2-Fluorobiphenyl (Surr)	72		43 - 145				06/17/22 14:22	06/21/22 18:30	1
2-Fluorophenol (Surr)	92		31 - 166				06/17/22 14:22	06/21/22 18:30	1
Nitrobenzene-d5 (Surr)	70		37 - 147				06/17/22 14:22	06/21/22 18:30	1
Phenol-d5 (Surr)	88		30 - 153				06/17/22 14:22	06/21/22 18:30	1
Terphenyl-d14 (Surr)	114		42 - 157				06/17/22 14:22	06/21/22 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		06/14/22 15:40	06/15/22 18:10	1
<b>Barium</b>	<b>0.32</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:40	06/15/22 18:10	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:40	06/15/22 18:10	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:40	06/15/22 18:10	1
Chromium	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:10	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:10	1
Copper	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:10	1
Iron	<0.40		0.40	0.20	mg/L		06/14/22 15:40	06/15/22 18:10	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/14/22 15:40	06/15/22 18:10	1
<b>Manganese</b>	<b>0.60</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:10	1
Nickel	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:10	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:40	06/15/22 18:10	1
Silver	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:10	1
<b>Zinc</b>	<b>0.25</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:40	06/15/22 18:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.023</b>	<b>J</b>	0.050	0.010	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:43	06/16/22 12:51	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:43	06/16/22 12:51	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Chromium</b>	<b>0.052</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Copper</b>	<b>0.052</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Iron</b>	<b>38</b>		0.40	0.20	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Lead</b>	<b>0.27</b>		0.0075	0.0075	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:51	1
<b>Nickel</b>	<b>0.038</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:51	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:43	06/16/22 12:51	1

Euofins Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R3-1(0-5)-061022**

**Lab Sample ID: 500-217985-2**

Date Collected: 06/10/22 11:40

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 86.5

**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		06/14/22 15:43	06/16/22 12:51	1
<b>Zinc</b>	<b>0.43</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:43	06/16/22 12:51	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>5300</b>		11	4.6	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
Antimony	<1.1		1.1	0.22	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Arsenic</b>	<b>1.4</b>		0.56	0.19	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Barium</b>	<b>29</b>		0.56	0.064	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Beryllium</b>	<b>0.24</b>		0.22	0.052	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
Cadmium	<0.11		0.11	0.020	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Calcium</b>	<b>7400</b>	<b>B</b>	11	1.9	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Chromium</b>	<b>9.3</b>		0.56	0.28	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Cobalt</b>	<b>2.2</b>		0.28	0.073	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Copper</b>	<b>4.1</b>		0.56	0.16	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Iron</b>	<b>6100</b>		11	5.8	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Lead</b>	<b>17</b>		0.28	0.13	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Magnesium</b>	<b>4400</b>		5.6	2.8	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Manganese</b>	<b>62</b>		0.56	0.081	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Nickel</b>	<b>5.6</b>		0.56	0.16	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Potassium</b>	<b>540</b>		28	9.9	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Silver</b>	<b>0.12</b>	<b>J</b>	0.28	0.072	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Sodium</b>	<b>350</b>		56	8.3	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
Thallium	<0.56		0.56	0.28	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Vanadium</b>	<b>13</b>		0.28	0.066	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1
<b>Zinc</b>	<b>28</b>		1.1	0.49	mg/Kg	☆	06/17/22 09:23	06/17/22 22:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		06/14/22 11:20	06/15/22 10:38	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		06/14/22 12:46	06/15/22 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.032</b>		0.018	0.0059	mg/Kg	☆	06/16/22 15:15	06/17/22 10:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.1</b>		0.2	0.2	SU			06/15/22 19:52	1



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.
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

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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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# Accreditation/Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

1

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# Chain of Custody Record

524034



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <u>Andris J Lesors</u>		Site Contact		Date:		COC No	
Company Name <u>Weston Solutions</u>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address <u>300 Rte 157 Bridge Pkwy</u>		<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <b>STD</b> <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
City/State/Zip <u>Lincolnshire, IL</u>									
Phone									
Fax									
Project Name <u>Marengo</u>									
Site <u>037</u>		Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)
P O #									
Sample Identification									
1	<u>R8-1 (0.5) - 061022</u>	<u>6/10/22</u>	<u>1230</u>	<u>G</u>	<u>S</u>	<u>6</u>			
2	<del>R8-1 (0.5) - 061022</del> <u>R3-1 (0.5) - 061022</u>		<u>1140</u>						
3	<del>R8-1 (0.5) - 061022</del> <u>R3-1 (0.5) - 061022</u>		<u>1235</u>						
4	<u>T6-1 (0.5) - 061022D</u>		<u>1305</u>			<u>2</u>			
5	<u>T6-1 (0.5) - 061022</u>		<u>1300</u>			<u>2</u>			
6	<u>V6-1 (0.5) - 061022</u>		<u>1450</u>			<u>6</u>			
7	<u>R7-1 (0.5) - 061022</u>		<u>1440</u>			<u>6</u>			
8	<u>GW3-1 - 061022</u>		<u>1500</u>	<u>G</u>	<u>GW</u>	<u>5</u>			
9	<u>GW3-1 - 061022D</u>		<u>1505</u>			<u>5</u>			
10	<u>Trip Blank</u>								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
<input 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 type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <u>Please include TCLP/SPLP Fe + Mn</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temp (°C) Obs'd <u>2.8</u> Corr'd <u>1.8</u>		Therm ID No _____			
Relinquished by: <u>[Signature]</u>		Company: <u>Weston</u>		Date/Time: <u>1700 6/10</u>		Received by:		Company: _____	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>Paula Buckley</u>		Company: <u>ESTM</u>	
								Date/Time: <u>6/11/22 1052</u>	



# Illinois Environmental Protection Agency

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 324 (IL 23) - State Street over Ditch at 2nd Ave. Office Phone Number, if available: \_\_\_\_\_

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

800 Block of N. State Street (ISGS Site No. 3246V-6)

City: Marengo State: IL Zip Code: \_\_\_\_\_

County: McHenry Township: \_\_\_\_\_

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

Latitude: 42.25692 Longitude: - 88.60864  
(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.): 314

### 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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@illinois.gov

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



Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

LOCATION T6-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3246V-6. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PSI 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]:

EUROFINS ANALYTICAL REPORTS - JOB IDs: 500-217985-1. ALSO SEE FIGURE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT.

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

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

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

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

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

*Michael A. Castillo*

Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Aug 21, 2023

Date:



**Summary Table - Unnamed Tributary Property (ISGS Site No. 3246V-6)  
 FAP 324: IL 23 (State Street) Over Ditch at 2nd Avenue  
 Marengo, McHenry County, Illinois**

Location Field Sample ID Sample Date ISGS Site No	Reference Concentrations (MAC Table)	T6-1	T6-1
		T6-1(0-1.5)-061022 6/10/2022 3246V-6	T6-1(0-1.5)-061022D 6/10/2022 3246V-6
Laboratory pH	<6.25, >9.0	8.4	8.5
<b>VOCs</b>		<b>No Exceedances</b>	
<b>SVOCs (mg/kg)</b>			
Benzo(a)pyrene	0.09 / 11 / 2.1	1.2 J	0.15 J
Benzo(b)fluoranthene	0.9 / 13 / 2.1	1.9 J	0.26 J
Dibenzo(a,h)anthracene	0.09 / 1.0 / 0.42	0.13 J	0.018 J
<b>Total Metals (mg/kg)</b>			
Aluminum, Total	---	3000	2700
Antimony, Total	5	0.24 J	0.25 J
Arsenic, Total	11.3 / 13.0	1.8	1.4
Barium, Total	1500	15	17
Beryllium, Total	22	0.22 J	0.22 J
Cadmium, Total	5.2	0.28 J	0.29 J
Calcium, Total	---	62000 B	54000 B
Chromium, Total	21	6.8	6.4
Cobalt, Total	20	2.9	3.3
Copper, Total	2900	12	12
Iron, Total	15000 / 15900	5200	5800
Lead, Total	107	76	57
Magnesium, Total	325000	31000	23000
Manganese, Total	630 / 636	78	71
Mercury, Total	0.89	0.056	0.053
Nickel, Total	100	9.3	9.6
Potassium, Total	---	480	490
Selenium, Total	1.3	ND	ND
Silver, Total	4.4	0.1 J	0.13 J
Sodium, Total	---	870	1000
Thallium, Total	2.6	ND	ND
Vanadium, Total	550	9.2	10
Zinc, Total	5100	59	66
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	0.05	ND	0.01 J
Barium, TCLP	2	0.16 J	0.15 J
Beryllium, TCLP	0.004	ND	ND
Cadmium, TCLP	0.005	0.0025 J	0.003 J
Chromium, TCLP	0.1	ND	ND
Cobalt, TCLP	1	0.012 J	0.012 J
Copper, TCLP	0.65	ND	ND
Iron, TCLP	5	ND	ND
Lead, TCLP	0.0075	0.089	0.067
Manganese, TCLP	0.15	0.58	0.57
Mercury, TCLP	0.002	ND	ND
Nickel, TCLP	0.1	0.032	0.034
Selenium, TCLP	0.05	ND	ND
Silver, TCLP	0.05	ND	ND
Zinc, TCLP	5	0.53	0.51
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.05	ND	ND
Barium, SPLP	2	ND	ND
Beryllium, SPLP	0.004	ND	ND
Cadmium, SPLP	0.005	ND	ND
Chromium, SPLP	0.1	0.013 J	ND
Cobalt, SPLP	1	ND	ND
Copper, SPLP	0.65	0.035	0.021 J
Iron, SPLP	5	7.1 J	3.2 J
Lead, SPLP	0.0075	0.12 J	0.058 J
Manganese, SPLP	0.15	0.056	0.024 J
Mercury, SPLP	0.002	ND	ND
Nickel, SPLP	0.1	ND	ND
Selenium, SPLP	0.05	ND	ND
Silver, SPLP	0.05	ND	ND
Zinc, SPLP	5	0.15 J	0.081 J

**Notes:**

--- - not applicable or value not available.

Reference concentrations from MAC Table include background values for Chicago corporate limits and MSA counties, as applicable.

ND - Constituent not detected above the reporting limit.

B - Compound was found in the blank and the investigative sample.

J - Estimated concentration.

     Yellow shaded values indicate concentration exceeds MAC Table Reference Concentration.

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-217985-1

Client Project/Site: IDOT - Marengo - WO 037

Revision: 1

**For:**

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

Attn: Mr. Andris Slesers



Authorized for release by:

7/20/2022 4:42:47 PM

Richard Wright, Senior Project Manager  
(708)746-0045

[Richard.Wright@et.eurofinsus.com](mailto:Richard.Wright@et.eurofinsus.com)

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results through



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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 - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022D**

**Lab Sample ID: 500-217985-4**

**Date Collected: 06/10/22 13:05**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.027</b>		0.024	0.010	mg/Kg	☼		06/20/22 11:30	1
Benzene	<0.0024		0.0024	0.00061	mg/Kg	☼		06/20/22 11:30	1
Bromodichloromethane	<0.0024		0.0024	0.00049	mg/Kg	☼		06/20/22 11:30	1
Bromoform	<0.0024		0.0024	0.00070	mg/Kg	☼		06/20/22 11:30	1
Bromomethane	<0.0060		0.0060	0.0023	mg/Kg	☼		06/20/22 11:30	1
Carbon disulfide	<0.0060		0.0060	0.0013	mg/Kg	☼		06/20/22 11:30	1
Carbon tetrachloride	<0.0024		0.0024	0.00070	mg/Kg	☼		06/20/22 11:30	1
Chlorobenzene	<0.0024		0.0024	0.00089	mg/Kg	☼		06/20/22 11:30	1
Chloroethane	<0.0060		0.0060	0.0018	mg/Kg	☼		06/20/22 11:30	1
Chloroform	<0.0024		0.0024	0.00084	mg/Kg	☼		06/20/22 11:30	1
Chloromethane	<0.0060		0.0060	0.0024	mg/Kg	☼		06/20/22 11:30	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00067	mg/Kg	☼		06/20/22 11:30	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00073	mg/Kg	☼		06/20/22 11:30	1
Dibromochloromethane	<0.0024		0.0024	0.00079	mg/Kg	☼		06/20/22 11:30	1
1,1-Dichloroethane	<0.0024		0.0024	0.00082	mg/Kg	☼		06/20/22 11:30	1
1,2-Dichloroethane	<0.0060		0.0060	0.0019	mg/Kg	☼		06/20/22 11:30	1
1,1-Dichloroethene	<0.0024		0.0024	0.00083	mg/Kg	☼		06/20/22 11:30	1
1,2-Dichloropropane	<0.0024		0.0024	0.00062	mg/Kg	☼		06/20/22 11:30	1
1,3-Dichloropropene, Total	<0.0024		0.0024	0.00084	mg/Kg	☼		06/20/22 11:30	1
Ethylbenzene	<0.0024		0.0024	0.0012	mg/Kg	☼		06/20/22 11:30	1
2-Hexanone	<0.0060		0.0060	0.0019	mg/Kg	☼		06/20/22 11:30	1
Methylene Chloride	<0.0060		0.0060	0.0024	mg/Kg	☼		06/20/22 11:30	1
<b>Methyl Ethyl Ketone</b>	<b>0.0052 J</b>		0.0060	0.0027	mg/Kg	☼		06/20/22 11:30	1
methyl isobutyl ketone	<0.0060		0.0060	0.0018	mg/Kg	☼		06/20/22 11:30	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00071	mg/Kg	☼		06/20/22 11:30	1
Styrene	<0.0024		0.0024	0.00073	mg/Kg	☼		06/20/22 11:30	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00077	mg/Kg	☼		06/20/22 11:30	1
Tetrachloroethene	<0.0024		0.0024	0.00082	mg/Kg	☼		06/20/22 11:30	1
Toluene	<0.0024		0.0024	0.00061	mg/Kg	☼		06/20/22 11:30	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0011	mg/Kg	☼		06/20/22 11:30	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00084	mg/Kg	☼		06/20/22 11:30	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00081	mg/Kg	☼		06/20/22 11:30	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	☼		06/20/22 11:30	1
Trichloroethene	<0.0024		0.0024	0.00081	mg/Kg	☼		06/20/22 11:30	1
Vinyl chloride	<0.0024		0.0024	0.0011	mg/Kg	☼		06/20/22 11:30	1
Xylenes, Total	<0.0048		0.0048	0.00077	mg/Kg	☼		06/20/22 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		75 - 131		06/20/22 11:30	1
Dibromofluoromethane (Surr)	109		75 - 126		06/20/22 11:30	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 134		06/20/22 11:30	1
Toluene-d8 (Surr)	98		75 - 124		06/20/22 11:30	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	☼	06/17/22 14:22	06/21/22 18:50	1
1,2-Dichlorobenzene	<0.19		0.19	0.046	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
1,3-Dichlorobenzene	<0.19		0.19	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
1,4-Dichlorobenzene	<0.19		0.19	0.049	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.044	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022D**

**Lab Sample ID: 500-217985-4**

**Date Collected: 06/10/22 13:05**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.38		0.38	0.087	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2,4,6-Trichlorophenol	<0.38		0.38	0.13	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2,4-Dichlorophenol	<0.38		0.38	0.091	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2,4-Dimethylphenol	<0.38		0.38	0.15	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2,4-Dinitrophenol	<0.77		0.77	0.68	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2,4-Dinitrotoluene	<0.19		0.19	0.061	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2,6-Dinitrotoluene	<0.19		0.19	0.075	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2-Chloronaphthalene	<0.19		0.19	0.042	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2-Chlorophenol	<0.19		0.19	0.065	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2-Methylnaphthalene	<0.077		0.077	0.0071	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2-Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2-Nitroaniline	<0.19		0.19	0.052	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
2-Nitrophenol	<0.38		0.38	0.091	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
3 & 4 Methylphenol	<0.19		0.19	0.064	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.054	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
3-Nitroaniline	<0.38		0.38	0.12	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.31	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.051	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
4-Chloro-3-methylphenol	<0.38		0.38	0.13	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
4-Chloroaniline	<0.77		0.77	0.18	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.045	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
4-Nitroaniline	<0.38		0.38	0.16	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
4-Nitrophenol	<0.77		0.77	0.36	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Acenaphthene	<0.038		0.038	0.0069	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Acenaphthylene	<0.038		0.038	0.0051	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Anthracene</b>	<b>0.016</b>	<b>J</b>	0.038	0.0064	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Benzo[a]anthracene</b>	<b>0.086</b>		0.038	0.0052	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Benzo[a]pyrene</b>	<b>0.15</b>		0.038	0.0074	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Benzo[b]fluoranthene</b>	<b>0.26</b>		0.038	0.0083	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Benzo[g,h,i]perylene</b>	<b>0.069</b>		0.038	0.012	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Benzo[k]fluoranthene</b>	<b>0.082</b>		0.038	0.011	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.039	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.057	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.070	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Butyl benzyl phthalate	<0.19		0.19	0.073	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Carbazole	<0.19		0.19	0.096	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Chrysene</b>	<b>0.13</b>		0.038	0.010	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Dibenz(a,h)anthracene</b>	<b>0.018</b>	<b>J</b>	0.038	0.0074	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Dibenzofuran	<0.19		0.19	0.045	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Diethyl phthalate	<0.19		0.19	0.065	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Dimethyl phthalate	<0.19		0.19	0.050	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Di-n-butyl phthalate	<0.19		0.19	0.058	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Di-n-octyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Fluoranthene</b>	<b>0.23</b>		0.038	0.0071	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
<b>Fluorene</b>	<b>0.0066</b>	<b>J</b>	0.038	0.0054	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Hexachlorobenzene	<0.077		0.077	0.0089	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Hexachlorobutadiene	<0.19		0.19	0.060	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Hexachlorocyclopentadiene	<0.77	*	0.77	0.22	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1
Hexachloroethane	<0.19		0.19	0.058	mg/Kg	✳	06/17/22 14:22	06/21/22 18:50	1

Euofins Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022D**

**Lab Sample ID: 500-217985-4**

**Date Collected: 06/10/22 13:05**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 83.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.080</b>		0.038	0.0099	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
Isophorone	<0.19		0.19	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
Naphthalene	<0.038		0.038	0.0059	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
Nitrobenzene	<0.038		0.038	0.0096	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.047	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
N-Nitrosodiphenylamine	<0.19		0.19	0.045	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
Pentachlorophenol	<0.77		0.77	0.62	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
<b>Phenanthrene</b>	<b>0.090</b>		0.038	0.0053	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
Phenol	<0.19		0.19	0.085	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1
<b>Pyrene</b>	<b>0.21</b>		0.038	0.0076	mg/Kg	☼	06/17/22 14:22	06/21/22 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol (Surr)</i>	69		31 - 143	06/17/22 14:22	06/21/22 18:50	1
<i>2-Fluorobiphenyl (Surr)</i>	66		43 - 145	06/17/22 14:22	06/21/22 18:50	1
<i>2-Fluorophenol (Surr)</i>	102		31 - 166	06/17/22 14:22	06/21/22 18:50	1
<i>Nitrobenzene-d5 (Surr)</i>	70		37 - 147	06/17/22 14:22	06/21/22 18:50	1
<i>Phenol-d5 (Surr)</i>	102		30 - 153	06/17/22 14:22	06/21/22 18:50	1
<i>Terphenyl-d14 (Surr)</i>	101		42 - 157	06/17/22 14:22	06/21/22 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		06/14/22 15:40	06/15/22 18:19	1
<b>Barium</b>	<b>0.15</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:40	06/15/22 18:19	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:40	06/15/22 18:19	1
<b>Cadmium</b>	<b>0.0030</b>	<b>J</b>	0.0050	0.0020	mg/L		06/14/22 15:40	06/15/22 18:19	1
Chromium	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:19	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:19	1
Copper	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:19	1
Iron	<0.40		0.40	0.20	mg/L		06/14/22 15:40	06/15/22 18:19	1
<b>Lead</b>	<b>0.067</b>		0.0075	0.0075	mg/L		06/14/22 15:40	06/15/22 18:19	1
<b>Manganese</b>	<b>0.57</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:19	1
<b>Nickel</b>	<b>0.034</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:19	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:40	06/15/22 18:19	1
Silver	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:19	1
<b>Zinc</b>	<b>0.51</b>		0.50	0.020	mg/L		06/14/22 15:40	06/15/22 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		06/14/22 15:43	06/16/22 12:58	1
Barium	<0.50		0.50	0.050	mg/L		06/14/22 15:43	06/16/22 12:58	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:43	06/16/22 12:58	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:43	06/16/22 12:58	1
Chromium	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:58	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:58	1
<b>Copper</b>	<b>0.021</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:58	1
<b>Iron</b>	<b>3.2</b>		0.40	0.20	mg/L		06/14/22 15:43	06/16/22 12:58	1
<b>Lead</b>	<b>0.058</b>		0.0075	0.0075	mg/L		06/14/22 15:43	06/16/22 12:58	1
<b>Manganese</b>	<b>0.024</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:58	1
Nickel	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:58	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:43	06/16/22 12:58	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022D**

**Lab Sample ID: 500-217985-4**

Date Collected: 06/10/22 13:05

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 83.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:58	1
<b>Zinc</b>	<b>0.081</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:43	06/16/22 12:58	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>2700</b>		12	4.8	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Antimony</b>	<b>0.25</b>	<b>J</b>	1.2	0.23	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Arsenic</b>	<b>1.4</b>		0.59	0.20	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Barium</b>	<b>17</b>		0.59	0.067	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Beryllium</b>	<b>0.22</b>	<b>J</b>	0.24	0.055	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Cadmium</b>	<b>0.29</b>	<b>B</b>	0.12	0.021	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Calcium</b>	<b>54000</b>	<b>B</b>	59	10	mg/Kg	☆	06/17/22 09:23	06/20/22 11:31	5
<b>Chromium</b>	<b>6.4</b>		0.59	0.29	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Cobalt</b>	<b>3.3</b>		0.30	0.077	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Copper</b>	<b>12</b>		0.59	0.17	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Iron</b>	<b>5800</b>		12	6.2	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Lead</b>	<b>57</b>		0.30	0.14	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Magnesium</b>	<b>23000</b>		5.9	2.9	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Manganese</b>	<b>71</b>		0.59	0.086	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Nickel</b>	<b>9.6</b>		0.59	0.17	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Potassium</b>	<b>490</b>		30	10	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
Selenium	<0.59		0.59	0.35	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Silver</b>	<b>0.13</b>	<b>J</b>	0.30	0.076	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Sodium</b>	<b>1000</b>		59	8.8	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
Thallium	<0.59		0.59	0.30	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Vanadium</b>	<b>10</b>		0.30	0.070	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	1
<b>Zinc</b>	<b>66</b>		1.2	0.52	mg/Kg	☆	06/17/22 09:23	06/17/22 23:00	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		06/14/22 11:20	06/15/22 10:42	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		06/14/22 12:46	06/15/22 11:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.053</b>		0.019	0.0063	mg/Kg	☆	06/16/22 15:15	06/17/22 10:58	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			06/16/22 16:17	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022**

**Lab Sample ID: 500-217985-5**

**Date Collected: 06/10/22 13:00**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 78.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.019</b>	<b>J</b>	0.025	0.011	mg/Kg	✳		06/20/22 11:56	1
Benzene	<0.0025		0.0025	0.00065	mg/Kg	✳		06/20/22 11:56	1
Bromodichloromethane	<0.0025		0.0025	0.00052	mg/Kg	✳		06/20/22 11:56	1
Bromoform	<0.0025		0.0025	0.00074	mg/Kg	✳		06/20/22 11:56	1
Bromomethane	<0.0064		0.0064	0.0024	mg/Kg	✳		06/20/22 11:56	1
Carbon disulfide	<0.0064		0.0064	0.0013	mg/Kg	✳		06/20/22 11:56	1
Carbon tetrachloride	<0.0025		0.0025	0.00074	mg/Kg	✳		06/20/22 11:56	1
Chlorobenzene	<0.0025		0.0025	0.00094	mg/Kg	✳		06/20/22 11:56	1
Chloroethane	<0.0064		0.0064	0.0019	mg/Kg	✳		06/20/22 11:56	1
Chloroform	<0.0025		0.0025	0.00088	mg/Kg	✳		06/20/22 11:56	1
Chloromethane	<0.0064		0.0064	0.0026	mg/Kg	✳		06/20/22 11:56	1
cis-1,2-Dichloroethene	<0.0025		0.0025	0.00071	mg/Kg	✳		06/20/22 11:56	1
cis-1,3-Dichloropropene	<0.0025		0.0025	0.00077	mg/Kg	✳		06/20/22 11:56	1
Dibromochloromethane	<0.0025		0.0025	0.00083	mg/Kg	✳		06/20/22 11:56	1
1,1-Dichloroethane	<0.0025		0.0025	0.00087	mg/Kg	✳		06/20/22 11:56	1
1,2-Dichloroethane	<0.0064		0.0064	0.0020	mg/Kg	✳		06/20/22 11:56	1
1,1-Dichloroethene	<0.0025		0.0025	0.00088	mg/Kg	✳		06/20/22 11:56	1
1,2-Dichloropropane	<0.0025		0.0025	0.00066	mg/Kg	✳		06/20/22 11:56	1
1,3-Dichloropropene, Total	<0.0025		0.0025	0.00089	mg/Kg	✳		06/20/22 11:56	1
Ethylbenzene	<0.0025		0.0025	0.0012	mg/Kg	✳		06/20/22 11:56	1
2-Hexanone	<0.0064		0.0064	0.0020	mg/Kg	✳		06/20/22 11:56	1
Methylene Chloride	<0.0064		0.0064	0.0025	mg/Kg	✳		06/20/22 11:56	1
Methyl Ethyl Ketone	<0.0064		0.0064	0.0028	mg/Kg	✳		06/20/22 11:56	1
methyl isobutyl ketone	<0.0064		0.0064	0.0019	mg/Kg	✳		06/20/22 11:56	1
Methyl tert-butyl ether	<0.0025		0.0025	0.00075	mg/Kg	✳		06/20/22 11:56	1
Styrene	<0.0025		0.0025	0.00077	mg/Kg	✳		06/20/22 11:56	1
1,1,2,2-Tetrachloroethane	<0.0025		0.0025	0.00081	mg/Kg	✳		06/20/22 11:56	1
Tetrachloroethene	<0.0025		0.0025	0.00087	mg/Kg	✳		06/20/22 11:56	1
Toluene	<0.0025		0.0025	0.00064	mg/Kg	✳		06/20/22 11:56	1
trans-1,2-Dichloroethene	<0.0025		0.0025	0.0011	mg/Kg	✳		06/20/22 11:56	1
trans-1,3-Dichloropropene	<0.0025		0.0025	0.00089	mg/Kg	✳		06/20/22 11:56	1
1,1,1-Trichloroethane	<0.0025		0.0025	0.00086	mg/Kg	✳		06/20/22 11:56	1
1,1,2-Trichloroethane	<0.0025		0.0025	0.0011	mg/Kg	✳		06/20/22 11:56	1
Trichloroethene	<0.0025		0.0025	0.00086	mg/Kg	✳		06/20/22 11:56	1
Vinyl chloride	<0.0025		0.0025	0.0011	mg/Kg	✳		06/20/22 11:56	1
Xylenes, Total	<0.0051		0.0051	0.00082	mg/Kg	✳		06/20/22 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		75 - 131		06/20/22 11:56	1
Dibromofluoromethane (Surr)	106		75 - 126		06/20/22 11:56	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 134		06/20/22 11:56	1
Toluene-d8 (Surr)	104		75 - 124		06/20/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.42		0.42	0.089	mg/Kg	✳	06/17/22 14:22	06/21/22 19:11	2
1,2-Dichlorobenzene	<0.42		0.42	0.099	mg/Kg	✳	06/17/22 14:22	06/21/22 19:11	2
1,3-Dichlorobenzene	<0.42		0.42	0.093	mg/Kg	✳	06/17/22 14:22	06/21/22 19:11	2
1,4-Dichlorobenzene	<0.42		0.42	0.11	mg/Kg	✳	06/17/22 14:22	06/21/22 19:11	2
2,2'-oxybis[1-chloropropane]	<0.42		0.42	0.096	mg/Kg	✳	06/17/22 14:22	06/21/22 19:11	2

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022**

**Lab Sample ID: 500-217985-5**

**Date Collected: 06/10/22 13:00**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 78.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.82		0.82	0.19	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2,4,6-Trichlorophenol	<0.82		0.82	0.28	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2,4-Dichlorophenol	<0.82		0.82	0.20	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2,4-Dimethylphenol	<0.82		0.82	0.31	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2,4-Dinitrophenol	<1.7		1.7	1.5	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2,4-Dinitrotoluene	<0.42		0.42	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2,6-Dinitrotoluene	<0.42		0.42	0.16	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2-Chloronaphthalene	<0.42		0.42	0.091	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2-Chlorophenol	<0.42		0.42	0.14	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>2-Methylnaphthalene</b>	<b>0.026</b>	<b>J</b>	0.17	0.015	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2-Methylphenol	<0.42		0.42	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2-Nitroaniline	<0.42		0.42	0.11	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
2-Nitrophenol	<0.82		0.82	0.20	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>3 &amp; 4 Methylphenol</b>	<b>0.16</b>	<b>J</b>	0.42	0.14	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
3,3'-Dichlorobenzidine	<0.42		0.42	0.12	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
3-Nitroaniline	<0.82		0.82	0.26	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
4,6-Dinitro-2-methylphenol	<1.7		1.7	0.66	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
4-Bromophenyl phenyl ether	<0.42		0.42	0.11	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
4-Chloro-3-methylphenol	<0.82		0.82	0.28	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
4-Chloroaniline	<1.7		1.7	0.39	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
4-Chlorophenyl phenyl ether	<0.42		0.42	0.096	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
4-Nitroaniline	<0.82		0.82	0.35	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
4-Nitrophenol	<1.7		1.7	0.79	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Acenaphthene</b>	<b>0.067</b>	<b>J</b>	0.082	0.015	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Acenaphthylene</b>	<b>0.016</b>	<b>J</b>	0.082	0.011	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Anthracene</b>	<b>0.18</b>		0.082	0.014	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Benzo[a]anthracene</b>	<b>0.78</b>		0.082	0.011	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Benzo[a]pyrene</b>	<b>1.2</b>	<b>*3</b>	0.082	0.016	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Benzo[b]fluoranthene</b>	<b>1.9</b>	<b>*3</b>	0.082	0.018	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Benzo[g,h,i]perylene</b>	<b>0.40</b>	<b>*3</b>	0.082	0.027	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Benzo[k]fluoranthene</b>	<b>0.61</b>	<b>*3</b>	0.082	0.024	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Bis(2-chloroethoxy)methane	<0.42		0.42	0.084	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Bis(2-chloroethyl)ether	<0.42		0.42	0.12	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.23</b>	<b>J</b>	0.42	0.15	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Butyl benzyl phthalate	<0.42		0.42	0.16	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Carbazole	<0.42		0.42	0.21	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Chrysene</b>	<b>1.1</b>		0.082	0.023	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Dibenz(a,h)anthracene</b>	<b>0.13</b>	<b>*3</b>	0.082	0.016	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Dibenzofuran	<0.42		0.42	0.097	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Diethyl phthalate	<0.42		0.42	0.14	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Dimethyl phthalate	<0.42		0.42	0.11	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Di-n-butyl phthalate	<0.42		0.42	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Di-n-octyl phthalate	<0.42		0.42	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Fluoranthene</b>	<b>2.0</b>		0.082	0.015	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Fluorene</b>	<b>0.081</b>	<b>J</b>	0.082	0.012	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Hexachlorobenzene	<0.17		0.17	0.019	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Hexachlorobutadiene	<0.42		0.42	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Hexachlorocyclopentadiene	<1.7	<b>*</b>	1.7	0.47	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Hexachloroethane	<0.42		0.42	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022**

**Lab Sample ID: 500-217985-5**

**Date Collected: 06/10/22 13:00**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 78.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.47</b>	<b>*3</b>	0.082	0.021	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Isophorone	<0.42		0.42	0.093	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Naphthalene</b>	<b>0.029</b>	<b>J</b>	0.082	0.013	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Nitrobenzene	<0.082		0.082	0.021	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
N-Nitrosodi-n-propylamine	<0.17		0.17	0.10	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
N-Nitrosodiphenylamine	<0.42		0.42	0.097	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Pentachlorophenol	<1.7		1.7	1.3	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Phenanthrene</b>	<b>1.1</b>		0.082	0.012	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
Phenol	<0.42		0.42	0.18	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Pyrene</b>	<b>2.0</b>		0.082	0.016	mg/Kg	☼	06/17/22 14:22	06/21/22 19:11	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>2,4,6-Tribromophenol (Surr)</i>	90		31 - 143				06/17/22 14:22	06/21/22 19:11	2
<i>2-Fluorobiphenyl (Surr)</i>	80		43 - 145				06/17/22 14:22	06/21/22 19:11	2
<i>2-Fluorophenol (Surr)</i>	119		31 - 166				06/17/22 14:22	06/21/22 19:11	2
<i>Nitrobenzene-d5 (Surr)</i>	70		37 - 147				06/17/22 14:22	06/21/22 19:11	2
<i>Phenol-d5 (Surr)</i>	102		30 - 153				06/17/22 14:22	06/21/22 19:11	2
<i>Terphenyl-d14 (Surr)</i>	110		42 - 157				06/17/22 14:22	06/21/22 19:11	2

**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		06/14/22 15:40	06/15/22 18:25	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:40	06/15/22 18:25	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:40	06/15/22 18:25	1
<b>Cadmium</b>	<b>0.0025</b>	<b>J</b>	0.0050	0.0020	mg/L		06/14/22 15:40	06/15/22 18:25	1
Chromium	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:25	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:25	1
Copper	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:25	1
Iron	<0.40		0.40	0.20	mg/L		06/14/22 15:40	06/15/22 18:25	1
<b>Lead</b>	<b>0.089</b>		0.0075	0.0075	mg/L		06/14/22 15:40	06/15/22 18:25	1
<b>Manganese</b>	<b>0.58</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:25	1
<b>Nickel</b>	<b>0.032</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:25	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:40	06/15/22 18:25	1
Silver	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:25	1
<b>Zinc</b>	<b>0.53</b>		0.50	0.020	mg/L		06/14/22 15:40	06/15/22 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		06/14/22 15:43	06/16/22 13:01	1
Barium	<0.50		0.50	0.050	mg/L		06/14/22 15:43	06/16/22 13:01	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:43	06/16/22 13:01	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:43	06/16/22 13:01	1
<b>Chromium</b>	<b>0.013</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:01	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:01	1
<b>Copper</b>	<b>0.035</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:01	1
<b>Iron</b>	<b>7.1</b>		0.40	0.20	mg/L		06/14/22 15:43	06/16/22 13:01	1
<b>Lead</b>	<b>0.12</b>		0.0075	0.0075	mg/L		06/14/22 15:43	06/16/22 13:01	1
<b>Manganese</b>	<b>0.056</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:01	1
Nickel	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:01	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:43	06/16/22 13:01	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: T6-1(0-1.5)-061022**

**Lab Sample ID: 500-217985-5**

Date Collected: 06/10/22 13:00

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 78.5

**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		06/14/22 15:43	06/16/22 13:01	1
<b>Zinc</b>	<b>0.15</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:43	06/16/22 13:01	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3000		12	5.0	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Antimony	0.24	J	1.2	0.24	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Arsenic	1.8		0.61	0.21	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Barium	15		0.61	0.070	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Beryllium	0.22	J	0.24	0.057	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Cadmium	0.28	B	0.12	0.022	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Calcium	62000	B	61	10	mg/Kg	☆	06/17/22 09:23	06/20/22 11:34	5
Chromium	6.8		0.61	0.30	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Cobalt	2.9		0.31	0.080	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Copper	12		0.61	0.17	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Iron	5200		12	6.4	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Lead	76		0.31	0.14	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Magnesium	31000		6.1	3.0	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Manganese	78		0.61	0.089	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Nickel	9.3		0.61	0.18	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Potassium	480		31	11	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Selenium	<0.61		0.61	0.36	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Silver	0.10	J	0.31	0.079	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Sodium	870		61	9.0	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Thallium	<0.61		0.61	0.31	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Vanadium	9.2		0.31	0.072	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	1
Zinc	59		1.2	0.54	mg/Kg	☆	06/17/22 09:23	06/17/22 23:04	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		06/14/22 11:20	06/15/22 10:44	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		06/14/22 12:46	06/15/22 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.020	0.0065	mg/Kg	☆	06/16/22 15:15	06/17/22 11:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.4		0.2	0.2	SU			06/16/22 16:19	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.
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

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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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# Accreditation/Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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

# Chain of Custody Record

524034



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <i>Andris J Lesors</i>		Site Contact		Date:		COC No	
Company Name <i>Weston Solutions</i>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address <i>300 Rte 157 Bridge Pkwy</i>		<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <i>STD</i> <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
City/State/Zip <i>Lincolnshire, IL</i>									
Phone									
Fax									
Project Name <i>Marengo</i>									
Site <i>037</i>		Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)
P O #									
Sample Identification									
1	<i>R8-1(0.5)-061022</i>	<i>6/10/22</i>	<i>1230</i>	<i>G</i>	<i>S</i>	<i>6</i>			<i>X X X X X X</i>
2	<del><i>R8-1(0.5)-061022</i></del> <i>R3-1(0.5)-061022</i>		<i>1140</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>			<i>↓ ↓ ↓ ↓ ↓ ↓</i>
3	<del><i>R8-1(0.5)-061022</i></del> <i>R3-1(0.5)-061022</i>		<i>1235</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>			<i>↓ ↓ ↓ ↓ ↓ ↓</i>
4	<i>T6-1(0.5)-061022D</i>		<i>1305</i>	<i>↓</i>	<i>↓</i>	<i>2</i>			
5	<i>T6-1(0.5)-061022</i>		<i>1300</i>	<i>↓</i>	<i>↓</i>	<i>2</i>			
6	<i>V6-1(0.5)-061022</i>		<i>1450</i>	<i>↓</i>	<i>↓</i>	<i>6</i>			
7	<i>R7-1(0.5)-061022</i>		<i>1440</i>	<i>↓</i>	<i>↓</i>	<i>6</i>			
8	<i>GW3-1-061022</i>		<i>1500</i>	<i>G</i>	<i>GW</i>	<i>5</i>			
9	<i>GW3-1-061022D</i>		<i>1505</i>	<i>↓</i>	<i>↓</i>	<i>5</i>			
10	<i>Trip Blank</i>								
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
<input 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 type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <i>Please include TCLP/SPLP Fe + Mn</i>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temp (°C) Obs'd <i>2.8</i> Corr'd <i>1.8</i>		Therm ID No _____			
Relinquished by: <i>[Signature]</i>		Company: <i>Weston</i>		Date/Time: <i>1700 6/10</i>		Received by:		Company: _____	
Relinquished by:		Company:		Date/Time:		Received by:		Company: _____	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>Paula Buckley</i>		Company: <i>ESTM</i>	
								Date/Time: <i>6/11/22 1052</i>	



# Illinois Environmental Protection Agency

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 324 (IL 23) - State Street over Ditch at 2nd Ave. Office Phone Number, if available: \_\_\_\_\_

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

720 N. State Street (ISGS Site No. 3246V-7)

City: Marengo State: IL Zip Code: \_\_\_\_\_

County: McHenry Township: \_\_\_\_\_

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

Latitude: 42.25679 Longitude: -88.60844  
(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.): 155

### 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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@illinois.gov

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



Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

LOCATION R7-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3246V-7. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PSI 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]:

EUROFINS ANALYTICAL REPORTS - JOB IDs: 500-217985-1. ALSO SEE FIGURE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT.


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

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

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

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

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

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Aug 21, 2023  
Date:  
  
P.Eng. or P.G. Seal:  
ILLINOIS

**Summary Table - Residence Property (ISGS Site No. 3246V-7)  
 FAP 324: IL 23 (State Street) Over Ditch at 2nd Avenue  
 Marengo, McHenry County, Illinois**

Location	Reference	R7-1
Field Sample ID	Concentrations	R7-1(0-5)-061022
Sample Date	(MAC Table)	6/10/2022
ISGS Site No		3246V-7
Laboratory pH	<6.25, >9.0	7.6
<b>VOCs</b>		<b>No Exceedances</b>
<b>SVOCs (mg/kg)</b>		
Benzo(a)pyrene	0.09 / 11 / 2.1	0.98 J
Benzo(b)fluoranthene	0.9 / 13 / 2.1	1.6 J
Dibenzo(a,h)anthracene	0.09 / 1.0 / 0.42	0.11 J
<b>Total Metals (mg/kg)</b>		
Aluminum, Total	---	6200
Antimony, Total	5	0.22 J
Arsenic, Total	11.3 / 13.0	3.1
Barium, Total	1500	47
Beryllium, Total	22	0.4
Cadmium, Total	5.2	ND
Calcium, Total	---	31000 B
Chromium, Total	21	12
Cobalt, Total	20	5.3
Copper, Total	2900	17
Iron, Total	15000 / 15900	9700
Lead, Total	107	19
Magnesium, Total	325000	17000
Manganese, Total	630 / 636	260
Mercury, Total	0.89	0.037
Nickel, Total	100	13
Potassium, Total	---	880
Selenium, Total	1.3	ND
Silver, Total	4.4	0.21 J
Sodium, Total	---	190
Thallium, Total	2.6	0.36 J
Vanadium, Total	550	18
Zinc, Total	5100	59
<b>TCLP Metals (mg/l)</b>		
Arsenic, TCLP	0.05	ND
Barium, TCLP	2	0.35 J
Beryllium, TCLP	0.004	ND
Cadmium, TCLP	0.005	ND
Chromium, TCLP	0.1	ND
Cobalt, TCLP	1	ND
Copper, TCLP	0.65	0.01 J
Iron, TCLP	5	ND
Lead, TCLP	0.0075	ND
Manganese, TCLP	0.15	0.65
Mercury, TCLP	0.002	ND
Nickel, TCLP	0.1	ND
Selenium, TCLP	0.05	ND
Silver, TCLP	0.05	ND
Zinc, TCLP	5	0.091 J
<b>SPLP Metals (mg/l)</b>		
Arsenic, SPLP	0.05	ND
Barium, SPLP	2	0.16 J
Beryllium, SPLP	0.004	ND
Cadmium, SPLP	0.005	ND
Chromium, SPLP	0.1	0.035
Cobalt, SPLP	1	ND
Copper, SPLP	0.65	0.033
Iron, SPLP	5	27
Lead, SPLP	0.0075	0.019
Manganese, SPLP	0.15	0.28
Mercury, SPLP	0.002	ND
Nickel, SPLP	0.1	0.022 J
Selenium, SPLP	0.05	ND
Silver, SPLP	0.05	ND
Zinc, SPLP	5	0.13 J

**Notes:**

--- - not applicable or value not available.

Reference concentrations from MAC Table include background values for Chicago corporate limits and MSA counties, as applicable.

ND - Constituent not detected above the reporting limit.

B - Compound was found in the blank and the investigative sample.

J - Estimated concentration.

     Yellow shaded values indicate concentration exceeds MAC Table Reference Concentration.

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-217985-1

Client Project/Site: IDOT - Marengo - WO 037

Revision: 1

**For:**

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

Attn: Mr. Andris Slesers



Authorized for release by:

7/20/2022 4:42:47 PM

Richard Wright, Senior Project Manager  
(708)746-0045

[Richard.Wright@et.eurofinsus.com](mailto:Richard.Wright@et.eurofinsus.com)

### LINKS

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results through



Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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 - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R7-1(0-5)-061022**

**Lab Sample ID: 500-217985-7**

**Date Collected: 06/10/22 14:40**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 88.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.023	*1	0.023	0.0099	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Benzene	<0.0023		0.0023	0.00058	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Bromodichloromethane	<0.0023		0.0023	0.00046	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Bromoform	<0.0023		0.0023	0.00066	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Bromomethane	<0.0057	*+	0.0057	0.0021	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Carbon disulfide	<0.0057		0.0057	0.0012	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Carbon tetrachloride	<0.0023	*+	0.0023	0.00066	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Chlorobenzene	<0.0023		0.0023	0.00084	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Chloroethane	<0.0057	*+	0.0057	0.0017	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Chloroform	<0.0023		0.0023	0.00079	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Chloromethane	<0.0057		0.0057	0.0023	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
cis-1,2-Dichloroethene	<0.0023		0.0023	0.00063	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
cis-1,3-Dichloropropene	<0.0023		0.0023	0.00068	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Dibromochloromethane	<0.0023		0.0023	0.00074	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,1-Dichloroethane	<0.0023		0.0023	0.00078	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,2-Dichloroethane	<0.0057		0.0057	0.0018	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,1-Dichloroethene	<0.0023		0.0023	0.00078	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,2-Dichloropropane	<0.0023		0.0023	0.00059	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,3-Dichloropropene, Total	<0.0023		0.0023	0.00080	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Ethylbenzene	<0.0023		0.0023	0.0011	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
2-Hexanone	<0.0057		0.0057	0.0018	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Methylene Chloride	<0.0057		0.0057	0.0022	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Methyl Ethyl Ketone	<0.0057	*1	0.0057	0.0025	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
methyl isobutyl ketone	<0.0057		0.0057	0.0017	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Methyl tert-butyl ether	<0.0023		0.0023	0.00067	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Styrene	<0.0023		0.0023	0.00069	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,1,2,2-Tetrachloroethane	<0.0023		0.0023	0.00073	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Tetrachloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Toluene	<0.0023		0.0023	0.00057	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
trans-1,2-Dichloroethene	<0.0023		0.0023	0.0010	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
trans-1,3-Dichloropropene	<0.0023		0.0023	0.00080	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,1,1-Trichloroethane	<0.0023		0.0023	0.00076	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
1,1,2-Trichloroethane	<0.0023		0.0023	0.00097	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Trichloroethene	<0.0023		0.0023	0.00077	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Vinyl chloride	<0.0023		0.0023	0.0010	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1
Xylenes, Total	<0.0045		0.0045	0.00073	mg/Kg	☼	06/11/22 14:51	06/17/22 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	06/11/22 14:51	06/17/22 16:57	1
Dibromofluoromethane (Surr)	114		75 - 126	06/11/22 14:51	06/17/22 16:57	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	06/11/22 14:51	06/17/22 16:57	1
Toluene-d8 (Surr)	116		75 - 124	06/11/22 14:51	06/17/22 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.040	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
1,4-Dichlorobenzene	<0.19		0.19	0.048	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1

Eurofins Chicago

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R7-1(0-5)-061022**

**Lab Sample ID: 500-217985-7**

**Date Collected: 06/10/22 14:40**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 88.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.085	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2,4-Dinitrophenol	<0.75		0.75	0.65	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2-Methylnaphthalene	<0.075		0.075	0.0068	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
2-Nitrophenol	<0.37		0.37	0.088	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
4,6-Dinitro-2-methylphenol	<0.75		0.75	0.30	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
4-Chloroaniline	<0.75		0.75	0.17	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
4-Nitroaniline	<0.37		0.37	0.16	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
4-Nitrophenol	<0.75		0.75	0.35	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Acenaphthene</b>	<b>0.032</b>	<b>J</b>	0.037	0.0067	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Acenaphthylene</b>	<b>0.0094</b>	<b>J</b>	0.037	0.0049	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Anthracene</b>	<b>0.10</b>		0.037	0.0062	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Benzo[a]anthracene</b>	<b>0.71</b>		0.037	0.0050	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Benzo[a]pyrene</b>	<b>0.98</b>	<b>*3</b>	0.037	0.0072	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Benzo[b]fluoranthene</b>	<b>1.6</b>	<b>*3</b>	0.037	0.0080	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Benzo[g,h,i]perylene</b>	<b>0.35</b>	<b>*3</b>	0.037	0.012	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Benzo[k]fluoranthene</b>	<b>0.53</b>	<b>*3</b>	0.037	0.011	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.056	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.15</b>	<b>J</b>	0.19	0.068	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Carbazole</b>	<b>0.10</b>	<b>J</b>	0.19	0.093	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Chrysene</b>	<b>0.96</b>		0.037	0.010	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Dibenz(a,h)anthracene</b>	<b>0.11</b>	<b>*3</b>	0.037	0.0072	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Fluoranthene</b>	<b>1.7</b>		0.037	0.0069	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Fluorene</b>	<b>0.038</b>		0.037	0.0052	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Hexachlorobenzene	<0.075		0.075	0.0086	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Hexachlorocyclopentadiene	<0.75	<b>*</b>	0.75	0.21	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1

Euofins Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R7-1(0-5)-061022**

**Lab Sample ID: 500-217985-7**

**Date Collected: 06/10/22 14:40**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 88.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.38</b>	<b>*3</b>	0.037	0.0096	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Isophorone	<0.19		0.19	0.042	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Naphthalene</b>	<b>0.0073</b>	<b>J</b>	0.037	0.0057	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
N-Nitrosodi-n-propylamine	<0.075		0.075	0.045	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Pentachlorophenol	<0.75		0.75	0.59	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Phenanthrene</b>	<b>0.83</b>		0.037	0.0052	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
<b>Pyrene</b>	<b>1.8</b>		0.037	0.0074	mg/Kg	☼	06/17/22 14:22	06/21/22 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		31 - 143				06/17/22 14:22	06/21/22 19:32	1
2-Fluorobiphenyl (Surr)	84		43 - 145				06/17/22 14:22	06/21/22 19:32	1
2-Fluorophenol (Surr)	102		31 - 166				06/17/22 14:22	06/21/22 19:32	1
Nitrobenzene-d5 (Surr)	75		37 - 147				06/17/22 14:22	06/21/22 19:32	1
Phenol-d5 (Surr)	107		30 - 153				06/17/22 14:22	06/21/22 19:32	1
Terphenyl-d14 (Surr)	118		42 - 157				06/17/22 14:22	06/21/22 19:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		06/14/22 15:40	06/15/22 18:45	1
<b>Barium</b>	<b>0.35</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:40	06/15/22 18:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:40	06/15/22 18:45	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:40	06/15/22 18:45	1
Chromium	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:45	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:45	1
<b>Copper</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:45	1
Iron	<0.40		0.40	0.20	mg/L		06/14/22 15:40	06/15/22 18:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/14/22 15:40	06/15/22 18:45	1
<b>Manganese</b>	<b>0.65</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:45	1
Nickel	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:45	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:40	06/15/22 18:45	1
Silver	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:45	1
<b>Zinc</b>	<b>0.091</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:40	06/15/22 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		06/14/22 15:43	06/16/22 13:14	1
<b>Barium</b>	<b>0.16</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:43	06/16/22 13:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:43	06/16/22 13:14	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:43	06/16/22 13:14	1
<b>Chromium</b>	<b>0.035</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:14	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:14	1
<b>Copper</b>	<b>0.033</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:14	1
<b>Iron</b>	<b>27</b>		0.40	0.20	mg/L		06/14/22 15:43	06/16/22 13:14	1
<b>Lead</b>	<b>0.019</b>		0.0075	0.0075	mg/L		06/14/22 15:43	06/16/22 13:14	1
<b>Manganese</b>	<b>0.28</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:14	1
<b>Nickel</b>	<b>0.022</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:43	06/16/22 13:14	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:43	06/16/22 13:14	1

Eurofins Chicago



# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R7-1(0-5)-061022**

**Lab Sample ID: 500-217985-7**

Date Collected: 06/10/22 14:40

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 88.5

**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		06/14/22 15:43	06/16/22 13:14	1
<b>Zinc</b>	<b>0.13</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:43	06/16/22 13:14	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>6200</b>		11	4.6	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Antimony</b>	<b>0.22</b>	<b>J</b>	1.1	0.22	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Arsenic</b>	<b>3.1</b>		0.56	0.19	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Barium</b>	<b>47</b>		0.56	0.064	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Beryllium</b>	<b>0.40</b>		0.22	0.052	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Cadmium</b>	<b>0.055</b>	<b>J B</b>	0.11	0.020	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Calcium</b>	<b>31000</b>	<b>B</b>	11	1.9	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Chromium</b>	<b>12</b>		0.56	0.28	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Cobalt</b>	<b>5.3</b>		0.28	0.073	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Copper</b>	<b>17</b>		0.56	0.16	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Iron</b>	<b>9700</b>		11	5.8	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Lead</b>	<b>19</b>		0.28	0.13	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Magnesium</b>	<b>17000</b>		5.6	2.8	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Manganese</b>	<b>260</b>		0.56	0.081	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Nickel</b>	<b>13</b>		0.56	0.16	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Potassium</b>	<b>880</b>		28	9.9	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
Selenium	<0.56		0.56	0.33	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Silver</b>	<b>0.21</b>	<b>J</b>	0.28	0.072	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Sodium</b>	<b>190</b>		56	8.3	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Thallium</b>	<b>0.36</b>	<b>J</b>	0.56	0.28	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Vanadium</b>	<b>18</b>		0.28	0.066	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1
<b>Zinc</b>	<b>59</b>		1.1	0.49	mg/Kg	☆	06/17/22 09:23	06/17/22 23:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		06/14/22 11:20	06/15/22 10:48	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		06/14/22 12:46	06/15/22 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.037</b>		0.018	0.0059	mg/Kg	☆	06/16/22 15:15	06/17/22 11:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.6</b>		0.2	0.2	SU			06/15/22 19:57	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.
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

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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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# Accreditation/Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

1

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# Chain of Custody Record

524034



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <u>Andrius J. Lesinski</u>		Site Contact		Date:		COC No	
Company Name <u>Weston Solutions</u>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address <u>300 Rte 157, Bridge Pkwy</u>		<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <b>STD</b> <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
City/State/Zip <u>Lincolnshire, IL</u>									
Phone _____									
Fax _____									
Project Name <u>Marengo</u>									
Site <u>037</u>		Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)
P.O.# _____									
Sample Identification									
1	R8-1 (0.5) - 061022	6/10/22	1230	G	S	G	6		X
2	<del>R8-1 (0.5) - 061022</del> R3-1 (0.5) - 061022		1140						
3	<del>R8-1 (0.5) - 061022</del> R3-1 (0.5) - 061022		1235						
4	T6-1 (0.5) - 061022D		1305				2		
5	T6-1 (0.5) - 061022		1300				2		
6	V6-1 (0.5) - 061022		1450				6		
7	R7-1 (0.5) - 061022		1440				6		
8	GW3-1 - 061022		1500	G	GW		5		
9	GW3-1 - 061022D		1505				5		
10	Trip Blank								
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
<input 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 type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <u>Please include TCLP/SPLP Fe + Mn</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temp (°C) Obs'd <u>2.8</u> Corr'd <u>1.8</u>		Therm ID No _____			
Relinquished by: <u>[Signature]</u>		Company: <u>Weston</u>		Date/Time: <u>1700 6/10</u>		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <u>Paula Buckley</u>		Company: <u>ESTM</u>	
								Date/Time: <u>6/11/22 1052</u>	



# Illinois Environmental Protection Agency

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

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

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

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

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

### I. Source Location Information

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

Project Name: FAP 324 (IL 23) - State Street over Ditch at 2nd Ave. Office Phone Number, if available: \_\_\_\_\_

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

719 N. State Street (ISGS Site No. 3246V-8)

City: Marengo State: IL Zip Code: \_\_\_\_\_

County: McHenry Township: \_\_\_\_\_

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

Latitude: 42.25679 Longitude: -88.60861  
(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.): 128

### 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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@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: (847) 705-4627

Contact: Vanessa Ruiz

Email, if available: Vanessa.Ruiz@illinois.gov

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



Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

LOCATION R8-1 WAS SAMPLED ADJACENT TO ISGS SITE No. 3246V-8. SEE FIGURE 3-1 AND TABLE 4-1 OF THE FINAL PSI 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]:

EUROFINS ANALYTICAL REPORTS - JOB IDs: 500-217985-1. ALSO SEE FIGURE 4-1 OF THE PRELIMINARY SITE INVESTIGATION REPORT.

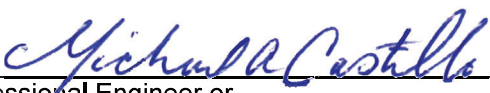
**IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist**

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

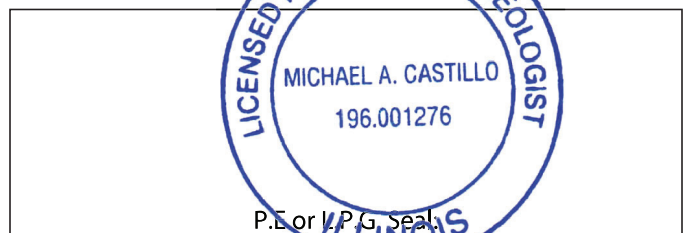
***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

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

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

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Aug 21, 2023  
Date:



**Summary Table - Residence Property (ISGS Site No. 3246V-8)  
FAP 324: IL 23 (State Street) Over Ditch at 2nd Avenue  
Marengo, McHenry County, Illinois**

Location	Reference Concentrations (MAC Table)	R8-1	
Field Sample ID		R8-1(0-5)-061022	R8-1(0-5)-061022D
Sample Date_D		6/10/2022	6/10/2022
ISGS Site No		3246V-8	3246V-8
Laboratory pH	<6.25, >9.0	8.4	8.3
<b>VOCs</b>		<b>No Exceedances</b>	
<b>SVOCs (mg/kg)</b>			
Benzo(a)pyrene	0.09 / 11 / 2.1	0.38 J	0.36 J
Benzo(b)fluoranthene	0.9 / 13 / 2.1	0.54 J	0.54 J
Dibenzo(a,h)anthracene	0.09 / 1.0 / 0.42	0.042 J	0.046 J
<b>Total Metals (mg/kg)</b>			
Aluminum, Total	---	3800	4900
Antimony, Total	5	ND	ND
Arsenic, Total	11.3 / 13.0	3.7	4.5
Barium, Total	1500	38	45
Beryllium, Total	22	0.3	0.33
Cadmium, Total	5.2	0.29 J	0.32 J
Calcium, Total	---	61000 J	30000 J
Chromium, Total	21	8.4	14
Cobalt, Total	20	4.3	5.2
Copper, Total	2900	18	15
Iron, Total	15000 / 15900	6900	7700
Lead, Total	107	88	110
Magnesium, Total	325000	29000 J	17000 J
Manganese, Total	630 / 636	170	190
Mercury, Total	0.89	0.076	0.1
Nickel, Total	100	11	13
Potassium, Total	---	570	610
Selenium, Total	1.3	ND	ND
Silver, Total	4.4	0.16 J	0.12 J
Sodium, Total	---	290	320
Thallium, Total	2.6	0.32 J	ND
Vanadium, Total	550	12	14
Zinc, Total	5100	76	99
<b>TCLP Metals (mg/l)</b>			
Arsenic, TCLP	0.05	ND	0.01 J
Barium, TCLP	2	0.29 J	0.39 J
Beryllium, TCLP	0.004	ND	ND
Cadmium, TCLP	0.005	0.0023 J	0.0032 J
Chromium, TCLP	0.1	ND	ND
Cobalt, TCLP	1	ND	ND
Copper, TCLP	0.65	ND	ND
Iron, TCLP	5	ND	ND
Lead, TCLP	0.0075	ND	ND
Manganese, TCLP	0.15	0.38	0.36
Mercury, TCLP	0.002	ND	ND
Nickel, TCLP	0.1	ND	ND
Selenium, TCLP	0.05	ND	ND
Silver, TCLP	0.05	ND	ND
Zinc, TCLP	5	0.17 J	0.3 J
<b>SPLP Metals (mg/l)</b>			
Arsenic, SPLP	0.05	0.019 J	ND
Barium, SPLP	2	0.22 J	0.26 J
Beryllium, SPLP	0.004	ND	ND
Cadmium, SPLP	0.005	ND	ND
Chromium, SPLP	0.1	0.047	0.078
Cobalt, SPLP	1	0.012 J	ND
Copper, SPLP	0.65	0.053	0.031
Iron, SPLP	5	34	41
Lead, SPLP	0.0075	0.28 J	0.069 J
Manganese, SPLP	0.15	0.48 J	0.25 J
Mercury, SPLP	0.002	ND	ND
Nickel, SPLP	0.1	0.038	0.028
Selenium, SPLP	0.05	ND	ND
Silver, SPLP	0.05	ND	ND
Zinc, SPLP	5	0.4 J	0.23 J

**Notes:**

--- - not applicable or value not available.

Reference concentrations from MAC Table include background values for Chicago corporate limits and MSA counties, as applicable.

ND - Constituent not detected above the reporting limit.

B - Compound was found in the blank and the investigative sample.

J - Estimated concentration.

    Yellow shaded values indicate concentration exceeds MAC Table Reference Concentration.

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-217985-1

Client Project/Site: IDOT - Marengo - WO 037

Revision: 1

**For:**

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

Attn: Mr. Andris Slesers



Authorized for release by:

7/20/2022 4:42:47 PM

Richard Wright, Senior Project Manager  
(708)746-0045

[Richard.Wright@et.eurofinsus.com](mailto:Richard.Wright@et.eurofinsus.com)

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results through



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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 - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022**

**Lab Sample ID: 500-217985-1**

**Date Collected: 06/10/22 12:30**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 88.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*1	0.018	0.0080	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Benzene	<0.0018		0.0018	0.00047	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Bromodichloromethane	<0.0018		0.0018	0.00037	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Bromoform	<0.0018		0.0018	0.00054	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Bromomethane	<0.0046	*+	0.0046	0.0017	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Carbon disulfide	<0.0046		0.0046	0.00095	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Carbon tetrachloride	<0.0018	*+	0.0018	0.00053	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Chlorobenzene	<0.0018		0.0018	0.00068	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Chloroethane	<0.0046	*+	0.0046	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Chloroform	<0.0018		0.0018	0.00064	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Chloromethane	<0.0046		0.0046	0.0018	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00051	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00055	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Dibromochloromethane	<0.0018		0.0018	0.00060	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,1-Dichloroethane	<0.0018		0.0018	0.00063	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,2-Dichloroethane	<0.0046		0.0046	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,1-Dichloroethene	<0.0018		0.0018	0.00063	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,2-Dichloropropane	<0.0018		0.0018	0.00047	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00064	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Ethylbenzene	<0.0018		0.0018	0.00088	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
2-Hexanone	<0.0046		0.0046	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Methylene Chloride	<0.0046		0.0046	0.0018	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Methyl Ethyl Ketone	<0.0046	*1	0.0046	0.0020	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
methyl isobutyl ketone	<0.0046		0.0046	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00054	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Styrene	<0.0018		0.0018	0.00055	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00059	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Tetrachloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Toluene	<0.0018		0.0018	0.00046	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00081	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00064	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00062	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00079	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Trichloroethene	<0.0018		0.0018	0.00062	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Vinyl chloride	<0.0018		0.0018	0.00081	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1
Xylenes, Total	<0.0037		0.0037	0.00059	mg/Kg	☼	06/11/22 14:51	06/17/22 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	06/11/22 14:51	06/17/22 15:18	1
Dibromofluoromethane (Surr)	110		75 - 126	06/11/22 14:51	06/17/22 15:18	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	06/11/22 14:51	06/17/22 15:18	1
Toluene-d8 (Surr)	137	S1+	75 - 124	06/11/22 14:51	06/17/22 15:18	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	☼	06/17/22 14:22	06/21/22 18:09	1
1,2-Dichlorobenzene	<0.19		0.19	0.044	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
1,3-Dichlorobenzene	<0.19		0.19	0.042	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
1,4-Dichlorobenzene	<0.19		0.19	0.047	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.043	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022**

**Lab Sample ID: 500-217985-1**

**Date Collected: 06/10/22 12:30**

**Matrix: Solid**

**Date Received: 06/11/22 10:50**

**Percent Solids: 88.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.37		0.37	0.084	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2,4,6-Trichlorophenol	<0.37		0.37	0.13	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2,4-Dichlorophenol	<0.37		0.37	0.088	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2,4-Dimethylphenol	<0.37		0.37	0.14	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2,4-Dinitrophenol	<0.74		0.74	0.65	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2,4-Dinitrotoluene	<0.19		0.19	0.059	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2,6-Dinitrotoluene	<0.19		0.19	0.073	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2-Chloronaphthalene	<0.19		0.19	0.041	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2-Chlorophenol	<0.19		0.19	0.063	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>2-Methylnaphthalene</b>	<b>0.040</b>	<b>J</b>	0.074	0.0068	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2-Methylphenol	<0.19		0.19	0.059	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2-Nitroaniline	<0.19		0.19	0.050	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
2-Nitrophenol	<0.37		0.37	0.087	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
3 & 4 Methylphenol	<0.19		0.19	0.062	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.052	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
3-Nitroaniline	<0.37		0.37	0.11	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.30	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.049	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
4-Chloro-3-methylphenol	<0.37		0.37	0.13	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.043	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
4-Nitroaniline	<0.37		0.37	0.15	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Acenaphthene</b>	<b>0.016</b>	<b>J</b>	0.037	0.0066	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Acenaphthylene</b>	<b>0.020</b>	<b>J</b>	0.037	0.0049	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Anthracene</b>	<b>0.062</b>		0.037	0.0062	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Benzo[a]anthracene</b>	<b>0.28</b>		0.037	0.0050	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Benzo[a]pyrene</b>	<b>0.38</b>	<b>*3</b>	0.037	0.0071	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Benzo[b]fluoranthene</b>	<b>0.54</b>	<b>*3</b>	0.037	0.0080	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Benzo[g,h,i]perylene</b>	<b>0.14</b>	<b>*3</b>	0.037	0.012	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Benzo[k]fluoranthene</b>	<b>0.16</b>	<b>*3</b>	0.037	0.011	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.038	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.055	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.71</b>		0.19	0.067	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Butyl benzyl phthalate	<0.19		0.19	0.070	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Carbazole	<0.19		0.19	0.092	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Chrysene</b>	<b>0.33</b>		0.037	0.010	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Dibenz(a,h)anthracene</b>	<b>0.042</b>	<b>*3</b>	0.037	0.0071	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Dibenzofuran	<0.19		0.19	0.043	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Diethyl phthalate	<0.19		0.19	0.063	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Dimethyl phthalate	<0.19		0.19	0.048	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Di-n-butyl phthalate	<0.19		0.19	0.056	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Di-n-octyl phthalate	<0.19		0.19	0.060	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Fluoranthene</b>	<b>0.54</b>		0.037	0.0068	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
<b>Fluorene</b>	<b>0.017</b>	<b>J</b>	0.037	0.0052	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Hexachlorobenzene	<0.074		0.074	0.0086	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Hexachlorobutadiene	<0.19		0.19	0.058	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Hexachlorocyclopentadiene	<0.74	<b>*</b>	0.74	0.21	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1
Hexachloroethane	<0.19		0.19	0.056	mg/Kg	✳	06/17/22 14:22	06/21/22 18:09	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022**

**Lab Sample ID: 500-217985-1**

Date Collected: 06/10/22 12:30

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.14</b>	<b>*3</b>	0.037	0.0096	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
Isophorone	<0.19		0.19	0.041	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
<b>Naphthalene</b>	<b>0.032</b>	<b>J</b>	0.037	0.0057	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
Nitrobenzene	<0.037		0.037	0.0092	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
N-Nitrosodiphenylamine	<0.19		0.19	0.044	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
<b>Phenanthrene</b>	<b>0.33</b>		0.037	0.0051	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
Phenol	<0.19		0.19	0.082	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
<b>Pyrene</b>	<b>0.61</b>		0.037	0.0073	mg/Kg	☼	06/17/22 14:22	06/21/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		31 - 143				06/17/22 14:22	06/21/22 18:09	1
2-Fluorobiphenyl (Surr)	83		43 - 145				06/17/22 14:22	06/21/22 18:09	1
2-Fluorophenol (Surr)	92		31 - 166				06/17/22 14:22	06/21/22 18:09	1
Nitrobenzene-d5 (Surr)	73		37 - 147				06/17/22 14:22	06/21/22 18:09	1
Phenol-d5 (Surr)	87		30 - 153				06/17/22 14:22	06/21/22 18:09	1
Terphenyl-d14 (Surr)	134		42 - 157				06/17/22 14:22	06/21/22 18:09	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		06/14/22 15:40	06/15/22 18:06	1
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:40	06/15/22 18:06	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:40	06/15/22 18:06	1
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		06/14/22 15:40	06/15/22 18:06	1
Chromium	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:06	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:06	1
Copper	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:06	1
Iron	<0.40		0.40	0.20	mg/L		06/14/22 15:40	06/15/22 18:06	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/14/22 15:40	06/15/22 18:06	1
<b>Manganese</b>	<b>0.38</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:06	1
Nickel	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:06	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:40	06/15/22 18:06	1
Silver	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:06	1
<b>Zinc</b>	<b>0.17</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:40	06/15/22 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.019</b>	<b>J</b>	0.050	0.010	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Barium</b>	<b>0.22</b>	<b>J F1</b>	0.50	0.050	mg/L		06/14/22 15:43	06/16/22 12:39	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:43	06/16/22 12:39	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Chromium</b>	<b>0.047</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Cobalt</b>	<b>0.012</b>	<b>J</b>	0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Copper</b>	<b>0.053</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Iron</b>	<b>34</b>		0.40	0.20	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Lead</b>	<b>0.28</b>	<b>F1</b>	0.0075	0.0075	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Manganese</b>	<b>0.48</b>	<b>F1</b>	0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:39	1
<b>Nickel</b>	<b>0.038</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:39	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:43	06/16/22 12:39	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
 Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022**

**Lab Sample ID: 500-217985-1**

Date Collected: 06/10/22 12:30

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 88.0

**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		06/14/22 15:43	06/16/22 12:39	1
<b>Zinc</b>	<b>0.40</b>	<b>J F1</b>	0.50	0.020	mg/L		06/14/22 15:43	06/16/22 12:39	1

**Method: 6010B - Total Metals**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>3800</b>		11	4.5	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
Antimony	<1.1		1.1	0.21	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Arsenic</b>	<b>3.7</b>		0.55	0.19	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Barium</b>	<b>38</b>		0.55	0.062	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Beryllium</b>	<b>0.30</b>		0.22	0.051	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Cadmium</b>	<b>0.29</b>	<b>B</b>	0.11	0.020	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Calcium</b>	<b>61000</b>	<b>B</b>	55	9.3	mg/Kg	☆	06/17/22 09:23	06/20/22 11:28	5
<b>Chromium</b>	<b>8.4</b>		0.55	0.27	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Cobalt</b>	<b>4.3</b>		0.27	0.072	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Copper</b>	<b>18</b>		0.55	0.15	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Iron</b>	<b>6900</b>		11	5.7	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Lead</b>	<b>88</b>		0.27	0.13	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Magnesium</b>	<b>29000</b>		5.5	2.7	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Manganese</b>	<b>170</b>		0.55	0.079	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Nickel</b>	<b>11</b>		0.55	0.16	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Potassium</b>	<b>570</b>		27	9.7	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
Selenium	<0.55		0.55	0.32	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Silver</b>	<b>0.16</b>	<b>J</b>	0.27	0.071	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Sodium</b>	<b>290</b>		55	8.1	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Thallium</b>	<b>0.32</b>	<b>J</b>	0.55	0.27	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Vanadium</b>	<b>12</b>		0.27	0.065	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1
<b>Zinc</b>	<b>76</b>		1.1	0.48	mg/Kg	☆	06/17/22 09:23	06/17/22 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		06/14/22 11:20	06/15/22 10:36	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		06/14/22 11:20	06/15/22 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.076</b>		0.018	0.0060	mg/Kg	☆	06/16/22 15:15	06/17/22 10:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>8.4</b>		0.2	0.2	SU			06/16/22 16:15	1

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022D**

**Lab Sample ID: 500-217985-3**

Date Collected: 06/10/22 12:35

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.019	*1	0.019	0.0081	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Benzene	<0.0019		0.0019	0.00048	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Bromodichloromethane	<0.0019		0.0019	0.00038	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Bromoform	<0.0019		0.0019	0.00054	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Bromomethane	<0.0047	*+	0.0047	0.0018	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Carbon disulfide	<0.0047		0.0047	0.00097	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Carbon tetrachloride	<0.0019	*+	0.0019	0.00054	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Chlorobenzene	<0.0019		0.0019	0.00069	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Chloroethane	<0.0047	*+	0.0047	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Chloroform	<0.0019		0.0019	0.00065	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Chloromethane	<0.0047		0.0047	0.0019	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
cis-1,2-Dichloroethene	<0.0019		0.0019	0.00052	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
cis-1,3-Dichloropropene	<0.0019		0.0019	0.00056	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Dibromochloromethane	<0.0019		0.0019	0.00061	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,1-Dichloroethane	<0.0019		0.0019	0.00064	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,2-Dichloroethane	<0.0047		0.0047	0.0015	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,1-Dichloroethene	<0.0019		0.0019	0.00064	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,2-Dichloropropane	<0.0019		0.0019	0.00048	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,3-Dichloropropene, Total	<0.0019		0.0019	0.00065	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Ethylbenzene	<0.0019		0.0019	0.00089	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
2-Hexanone	<0.0047		0.0047	0.0015	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Methylene Chloride	<0.0047		0.0047	0.0018	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Methyl Ethyl Ketone	<0.0047	*1	0.0047	0.0021	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
methyl isobutyl ketone	<0.0047		0.0047	0.0014	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Methyl tert-butyl ether	<0.0019		0.0019	0.00055	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Styrene	<0.0019		0.0019	0.00056	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,1,2,2-Tetrachloroethane	<0.0019		0.0019	0.00060	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Tetrachloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Toluene	<0.0019		0.0019	0.00047	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
trans-1,2-Dichloroethene	<0.0019		0.0019	0.00083	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
trans-1,3-Dichloropropene	<0.0019		0.0019	0.00065	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,1,1-Trichloroethane	<0.0019		0.0019	0.00063	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
1,1,2-Trichloroethane	<0.0019		0.0019	0.00080	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Trichloroethene	<0.0019		0.0019	0.00063	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Vinyl chloride	<0.0019		0.0019	0.00082	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1
Xylenes, Total	<0.0037		0.0037	0.00060	mg/Kg	☼	06/11/22 14:51	06/17/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		75 - 131	06/11/22 14:51	06/17/22 16:07	1
Dibromofluoromethane (Surr)	115		75 - 126	06/11/22 14:51	06/17/22 16:07	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 134	06/11/22 14:51	06/17/22 16:07	1
Toluene-d8 (Surr)	113		75 - 124	06/11/22 14:51	06/17/22 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
1,2-Dichlorobenzene	<0.18		0.18	0.044	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
1,4-Dichlorobenzene	<0.18		0.18	0.047	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022D**

**Lab Sample ID: 500-217985-3**

Date Collected: 06/10/22 12:35

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<0.36		0.36	0.083	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2,4,6-Trichlorophenol	<0.36		0.36	0.13	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2,4-Dichlorophenol	<0.36		0.36	0.087	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2,4-Dinitrophenol	<0.74		0.74	0.64	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2,4-Dinitrotoluene	<0.18		0.18	0.058	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2,6-Dinitrotoluene	<0.18		0.18	0.072	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>2-Methylnaphthalene</b>	<b>0.032</b>	<b>J</b>	0.074	0.0067	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2-Methylphenol	<0.18		0.18	0.059	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2-Nitroaniline	<0.18		0.18	0.049	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
2-Nitrophenol	<0.36		0.36	0.086	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
3 & 4 Methylphenol	<0.18		0.18	0.061	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
3,3'-Dichlorobenzidine	<0.18	F1	0.18	0.051	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
4,6-Dinitro-2-methylphenol	<0.74		0.74	0.29	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.048	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
4-Chloroaniline	<0.74		0.74	0.17	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.043	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
4-Nitrophenol	<0.74		0.74	0.35	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Acenaphthene</b>	<b>0.0091</b>	<b>J</b>	0.036	0.0066	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Acenaphthylene</b>	<b>0.022</b>	<b>J</b>	0.036	0.0048	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Anthracene</b>	<b>0.049</b>		0.036	0.0061	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Benzo[a]anthracene</b>	<b>0.25</b>		0.036	0.0049	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Benzo[a]pyrene</b>	<b>0.36</b>	<b>*3</b>	0.036	0.0071	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Benzo[b]fluoranthene</b>	<b>0.54</b>	<b>*3</b>	0.036	0.0079	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Benzo[g,h,i]perylene</b>	<b>0.15</b>	<b>F1 *3</b>	0.036	0.012	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Benzo[k]fluoranthene</b>	<b>0.17</b>	<b>*3</b>	0.036	0.011	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.055	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.16</b>	<b>J F1</b>	0.18	0.067	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Butyl benzyl phthalate	<0.18	F1	0.18	0.070	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Carbazole	<0.18		0.18	0.091	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Chrysene</b>	<b>0.32</b>		0.036	0.010	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Dibenz(a,h)anthracene</b>	<b>0.046</b>	<b>F1 *3</b>	0.036	0.0071	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Dibenzofuran	<0.18		0.18	0.043	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Diethyl phthalate	<0.18		0.18	0.062	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Dimethyl phthalate	<0.18		0.18	0.048	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Di-n-butyl phthalate	<0.18		0.18	0.056	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Di-n-octyl phthalate	<0.18		0.18	0.060	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Fluoranthene</b>	<b>0.53</b>		0.036	0.0068	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Fluorene</b>	<b>0.012</b>	<b>J</b>	0.036	0.0051	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Hexachlorobenzene	<0.074		0.074	0.0085	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Hexachlorobutadiene	<0.18		0.18	0.057	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Hexachlorocyclopentadiene	<0.74	F1 *-	0.74	0.21	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Hexachloroethane	<0.18		0.18	0.056	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022D**

**Lab Sample ID: 500-217985-3**

Date Collected: 06/10/22 12:35

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 89.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.14</b>	<b>F1 *3</b>	0.036	0.0095	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Naphthalene</b>	<b>0.028</b>	<b>J</b>	0.036	0.0056	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Nitrobenzene	<0.036		0.036	0.0091	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
N-Nitrosodi-n-propylamine	<0.074		0.074	0.045	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Pentachlorophenol	<0.74		0.74	0.59	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Phenanthrene</b>	<b>0.26</b>		0.036	0.0051	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
Phenol	<0.18		0.18	0.081	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Pyrene</b>	<b>0.63</b>	<b>F1</b>	0.036	0.0073	mg/Kg	☼	06/17/22 14:22	06/20/22 17:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol (Surr)	76		31 - 143				06/17/22 14:22	06/20/22 17:54	1
2-Fluorobiphenyl (Surr)	81		43 - 145				06/17/22 14:22	06/20/22 17:54	1
2-Fluorophenol (Surr)	92		31 - 166				06/17/22 14:22	06/20/22 17:54	1
Nitrobenzene-d5 (Surr)	72		37 - 147				06/17/22 14:22	06/20/22 17:54	1
Phenol-d5 (Surr)	91		30 - 153				06/17/22 14:22	06/20/22 17:54	1
Terphenyl-d14 (Surr)	132		42 - 157				06/17/22 14:22	06/20/22 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.010</b>	<b>J</b>	0.050	0.010	mg/L		06/14/22 15:40	06/15/22 18:14	1
<b>Barium</b>	<b>0.39</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:40	06/15/22 18:14	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:40	06/15/22 18:14	1
<b>Cadmium</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0020	mg/L		06/14/22 15:40	06/15/22 18:14	1
Chromium	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:14	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:14	1
Copper	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:14	1
Iron	<0.40		0.40	0.20	mg/L		06/14/22 15:40	06/15/22 18:14	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/14/22 15:40	06/15/22 18:14	1
<b>Manganese</b>	<b>0.36</b>		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:14	1
Nickel	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:14	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:40	06/15/22 18:14	1
Silver	<0.025		0.025	0.010	mg/L		06/14/22 15:40	06/15/22 18:14	1
<b>Zinc</b>	<b>0.30</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:40	06/15/22 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		06/14/22 15:43	06/16/22 12:54	1
<b>Barium</b>	<b>0.26</b>	<b>J</b>	0.50	0.050	mg/L		06/14/22 15:43	06/16/22 12:54	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/14/22 15:43	06/16/22 12:54	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/14/22 15:43	06/16/22 12:54	1
<b>Chromium</b>	<b>0.078</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:54	1
Cobalt	<0.025		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:54	1
<b>Copper</b>	<b>0.031</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:54	1
<b>Iron</b>	<b>41</b>		0.40	0.20	mg/L		06/14/22 15:43	06/16/22 12:54	1
<b>Lead</b>	<b>0.069</b>		0.0075	0.0075	mg/L		06/14/22 15:43	06/16/22 12:54	1
<b>Manganese</b>	<b>0.25</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:54	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		06/14/22 15:43	06/16/22 12:54	1
Selenium	<0.050		0.050	0.020	mg/L		06/14/22 15:43	06/16/22 12:54	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

**Client Sample ID: R8-1(0-5)-061022D**

**Lab Sample ID: 500-217985-3**

Date Collected: 06/10/22 12:35

Matrix: Solid

Date Received: 06/11/22 10:50

Percent Solids: 89.8

### 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		06/14/22 15:43	06/16/22 12:54	1
<b>Zinc</b>	<b>0.23</b>	<b>J</b>	0.50	0.020	mg/L		06/14/22 15:43	06/16/22 12:54	1

### Method: 6010B - Total Metals

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>4900</b>		11	4.5	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
Antimony	<1.1		1.1	0.21	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Arsenic</b>	<b>4.5</b>		0.55	0.19	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Barium</b>	<b>45</b>		0.55	0.063	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Beryllium</b>	<b>0.33</b>		0.22	0.052	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Cadmium</b>	<b>0.32</b>	<b>B</b>	0.11	0.020	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Calcium</b>	<b>30000</b>	<b>B</b>	11	1.9	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Chromium</b>	<b>14</b>		0.55	0.27	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Cobalt</b>	<b>5.2</b>		0.28	0.072	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Copper</b>	<b>15</b>		0.55	0.15	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Iron</b>	<b>7700</b>		11	5.7	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Lead</b>	<b>110</b>		0.28	0.13	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Magnesium</b>	<b>17000</b>		5.5	2.7	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Manganese</b>	<b>190</b>		0.55	0.080	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Nickel</b>	<b>13</b>		0.55	0.16	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Potassium</b>	<b>610</b>		28	9.8	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
Selenium	<0.55		0.55	0.32	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Silver</b>	<b>0.12</b>	<b>J</b>	0.28	0.071	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Sodium</b>	<b>320</b>		55	8.2	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
Thallium	<0.55		0.55	0.28	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Vanadium</b>	<b>14</b>		0.28	0.065	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1
<b>Zinc</b>	<b>99</b>		1.1	0.49	mg/Kg	☆	06/17/22 09:23	06/17/22 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		06/14/22 11:20	06/15/22 10:40	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		06/14/22 12:46	06/15/22 11:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.10</b>		0.017	0.0057	mg/Kg	☆	06/16/22 15:15	06/17/22 10:56	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			06/15/22 19:54	1

# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.
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



# Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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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# Accreditation/Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: IDOT - Marengo - WO 037

Job ID: 500-217985-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <i>Andris J Lesors</i>		Site Contact		Date:		COC No																									
Company Name <i>Weston Solutions</i>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs																									
Address <i>300 Kn-Mt. Bridge Pkwy</i>		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <i>STD</i> <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day																															
City/State/Zip <i>Lincolnshire, IL</i>																																	
Phone																																	
Fax																																	
Project Name <i>Marengo</i>																																	
Site <i>037</i>		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		VOCs		SVOCs		Total Metals		TCLP Metals		SPLP Metals		pH		500-217985 COC		For Lab Use Only: Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-217985</i>			
P O #		Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		VOCs		SVOCs		Total Metals		TCLP Metals		SPLP Metals		pH		500-217985 COC		Sample Specific Notes	
1		<i>R8-1(0.5)-061022</i>		<i>6/10/22</i>		<i>1230</i>		<i>G</i>		<i>S</i>		<i>6</i>						<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>		<i>X</i>							
2		<del><i>R8-1(0.5)-061022</i></del> <i>R3-1(0.5)-061022</i>		<i>1140</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
3		<del><i>R8-1(0.5)-061022</i></del> <i>R3-1(0.5)-061022</i>		<i>1235</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
4		<i>T6-1(0.5)-061022D</i>		<i>1305</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>2</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
5		<i>T6-1(0.5)-061022</i>		<i>1300</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>2</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
6		<i>V6-1(0.5)-061022</i>		<i>1450</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>6</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
7		<i>R7-1(0.5)-061022</i>		<i>1440</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>6</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
8		<i>Gw3-1-061022</i>		<i>1500</i>		<i>G</i>		<i>Gw</i>		<i>S</i>		<i>5</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
9		<i>Gw3-1-061022D</i>		<i>1505</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>5</i>						<i>↓</i>		<i>↓</i>		<i>↓</i>		<i>↓</i>									
10		<i>Trip Blank</i>																															
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 type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months																							
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown																																	
Special Instructions/QC Requirements & Comments: <i>Please include TCLP/SPLP Fe + Mn</i>																																	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temp (°C) Obs'd <i>2.8</i> Corr'd <i>1.8</i>		Therm ID No																											
Relinquished by: <i>[Signature]</i>		Company: <i>Weston</i>		Date/Time: <i>1700 6/10</i>		Received by:		Company:		Date/Time:																							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																							
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company: <i>ESTM</i>		Date/Time: <i>6/11/22 1052</i>																							