



# 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: FAI 94/FAU 1332 (I-94/ Oakton Street) Office Phone Number, if available: \_\_\_\_\_

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

5701 W. Oakton Street ISGS #3603-1 (Niles West High School)

City: Skokie State: IL Zip Code: 60077

County: Cook Township: Niles

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

Latitude: 42.02631 Longitude: -87.77122  
(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): \_\_\_\_\_ Approximate End Date (mm/dd/yyyy): \_\_\_\_\_

Estimated Volume of debris (cu. Yd.): 134

### II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

Location 3603-01-B03 was sampled within the construction zone adjacent to ISGS #3603-1 (Niles West High School). Refer to PSI Report for ISGS #3603-1 (Niles West High School) including Table 4-3, and Figure 4-3.

- 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]:

See attached data summary table and associated laboratory data package J235648-1.

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

I, Thomas C. Campbell, P.E. (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: WSP USA

Street Address: 115 W Washington St., Suite 1270S

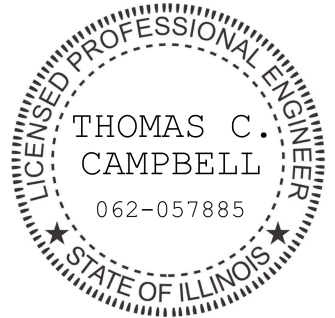
City: Indianapolis State: IN Zip Code: 46204

Phone: (317) 972-1706

Thomas C. Campbell, P.E.  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Sep 21, 2023  
Date:



Expires 11/30/2023

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





## Analytical Data Summary

PTB #196-002; IDOT Job # D-91-441-20; Work Order 20 - IDOT Project # D-91-367-20

### Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in  
Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

### Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
  - † = Concentration exceeds the most stringent MAC.
  - m = Concentration exceeds the MAC for an MSA.
  - \* = Concentration exceeds the MAC for Chicago corporate limits.
  - c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
  - r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
  - L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Headspace reading exceeds background levels
  -  = Concentration exceeds the most stringent MAC only
  -  = Concentration exceeds the Chicago-Specific MAC.
  -  = Concentration exceeds applicable comparison criteria.

## CONTAMINANTS OF CONCERN

SITE	ISGS #3603-1 (Niles West High School)	Comparison Criteria					
		MACs			TACO		
BORING	3603-01-B03	Most Stringent	MSA	Chicago	Residential	Construction Worker	SCGIER
SAMPLE	3603-01-B03 (0-2)						
MATRIX	Soil						
DEPTH (feet)	0-2						
pH	8.9						
PID (MU)	--						
<b>VOCs (None Detected)</b>							
<b>SVOCs (mg/kg)</b>							
Anthracene	0.0085 J	12,000	--	2.62	23,000	610,000	--
Benzo(a)anthracene	0.065	0.9	1.8	10.9	1.8	170	--
Benzo(a)pyrene	0.086	0.09	2.1	11.4	2.1	17	--
Benzo(b)fluoranthene	0.12	0.9	2.1	13.1	2.1	170	--
Benzo(g,h,i)perylene	0.063	--	--	4.44	--	--	--
Benzo(k)fluoranthene	0.045	9	--	8.14	9	1,700	--
Chrysene	0.084	88	--	10.6	88	17,000	--
Dibenz(a,h)anthracene	0.033 J	0.09	0.42	1.03	0.42	17	--
Fluoranthene	0.13	3,100	--	27.6	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.10	0.9	1.6	5.77	1.6	170	--
Phenanthrene	0.058	--	--	15.3	--	--	--
Pyrene	0.14 J	2,300	--	17.9	2,300	61,000	--
<b>Inorganics (mg/kg)</b>							
Antimony	0.25 J	5	--	--	31	82	--
Arsenic	3.6	11.3	13	--	13	61	--
Barium	33	1,500	--	--	5,500	14,000	--
Beryllium	0.35	22	--	--	160	410	--
Boron	2.8	40	--	--	16,000	41,000	--
Calcium	13,000	--	--	--	--	--	--
Chromium	8.2	21	--	--	230	690	--
Cobalt	4.0	20	--	--	4,700	12,000	--
Copper	11	2,900	--	--	2,900	8,200	--
Iron	8,100	15,000	15,900	--	--	--	--
Lead	17	107	--	--	400	700	--
Magnesium	7,800	325,000	--	--	--	730,000	--
Manganese	210	630	636	--	1,600	4,100	--
Mercury	0.041	0.89	--	--	10	0.1	--
Nickel	11	100	--	--	1,600	4,100	--
Potassium	450	--	--	--	--	--	--
Silver	0.17 J	4.4	--	--	390	1,000	--
Sodium	310	--	--	--	--	--	--
Vanadium	13	550	--	--	550	1,400	--
Zinc	33	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>							
Barium	0.27 J	--	--	--	--	--	2
Iron	0.22 J	--	--	--	--	--	5
Lead	ND U	--	--	--	--	--	0.0075
Manganese	1.7 L	--	--	--	--	--	0.15
Nickel	0.44 L	--	--	--	--	--	0.1
Zinc	0.032 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>							
Manganese	0.15	--	--	--	--	--	0.15
Nickel	0.028	--	--	--	--	--	0.1



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dean Tiebot  
WSP USA Inc.  
30 North LaSalle Street  
Chicago, Illinois 60602  
Generated 7/6/2023 11:03:21 AM

## JOB DESCRIPTION

IDOT - 196-002-WO20 FAI 94

## JOB NUMBER

500-235648-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



Generated  
7/6/2023 11:03:21 AM

Authorized for release by  
Jim Knapp, Project Manager II  
[Jim.Knapp@et.eurofinsus.com](mailto:Jim.Knapp@et.eurofinsus.com)  
(630)758-0262



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	6
Method Summary . . . . .	19
Sample Summary . . . . .	20
Client Sample Results . . . . .	21
Definitions . . . . .	77
QC Association . . . . .	79
Surrogate Summary . . . . .	88
QC Sample Results . . . . .	90
Chronicle . . . . .	109
Certification Summary . . . . .	120
Chain of Custody . . . . .	121
Receipt Checklists . . . . .	123

# Case Narrative

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Job ID: 500-235648-1

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-235648-1

#### Receipt

The samples were received on 6/22/2023 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.5° C and 4.8° C.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 500-720335 and analytical batch 500-720608 recovered outside control limits for the following analytes: Carbon disulfide, Carbon tetrachloride, Chloromethane, Methylene Chloride, 1,1-Dichloroethene and trans-1,2-Dichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-721203 was outside the method criteria for the following analytes: 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate and Pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-721203 was outside the method criteria for the following analyte: Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-721184 and analytical batch 500-721203 had 1 analyte outside control limits: Hexachlorocyclopentadiene. These results have been reported and qualified.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample and associated MS/MSD was outside of acceptance limits. No further corrective action was required as the matrix effect was confirmed on the parent sample from the subsequent MS/MSD analysis. 3603-03-B09 (0-4) (500-235648-1), (500-235648-E-1-G MS) and (500-235648-E-1-H MSD)

Method 8270D: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-721184 and analytical batch 500-721203 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-721493 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, Isophorone, N-Nitrosodi-n-propylamine and Pentachlorophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: 3603-03-B10 (0-2) (500-235648-3), 3603-01-B01 (0-2) (500-235648-11) and 3603-01-B02 (0-2) (500-235648-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep



# Case Narrative

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

---

## Job ID: 500-235648-1 (Continued)

---

### Laboratory: Eurofins Chicago (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Detection Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Client Sample ID: 3603-01-B02 (0-2) (Continued)

## Lab Sample ID: 500-235648-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.0050		0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.063		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.13	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.20		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.31		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.024		0.017	0.0088	mg/Kg	1	☼	7471B	Total/NA
pH	9.2		0.2	0.2	SU	1		9045D	Total/NA

## Client Sample ID: 3603-01-B03 (0-2)

## Lab Sample ID: 500-235648-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0085	J	0.034	0.0057	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.065		0.034	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.086		0.034	0.0066	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.034	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.063		0.034	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.045		0.034	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.084		0.034	0.0092	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.033	J	0.034	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.13		0.034	0.0063	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10		0.034	0.0088	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.058		0.034	0.0047	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.14		0.034	0.0067	mg/Kg	1	☼	8270D	Total/NA
Antimony	0.25	J	1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	3.6		0.50	0.17	mg/Kg	1	☼	6010B	Total/NA
Barium	33		0.50	0.057	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.35		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Boron	2.8		2.5	0.23	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	B	0.10	0.018	mg/Kg	1	☼	6010B	Total/NA
Calcium	13000		10	1.7	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.2		0.50	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	4.0		0.25	0.066	mg/Kg	1	☼	6010B	Total/NA
Copper	11		0.50	0.14	mg/Kg	1	☼	6010B	Total/NA
Iron	8100		10	5.2	mg/Kg	1	☼	6010B	Total/NA
Lead	17		0.25	0.12	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7800		5.0	2.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		0.50	0.073	mg/Kg	1	☼	6010B	Total/NA
Nickel	11		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Potassium	450		25	8.9	mg/Kg	1	☼	6010B	Total/NA
Silver	0.17	J	0.25	0.065	mg/Kg	1	☼	6010B	Total/NA
Sodium	310		50	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		0.25	0.059	mg/Kg	1	☼	6010B	Total/NA
Zinc	33		1.0	0.44	mg/Kg	1	☼	6010B	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Iron	0.22	J	0.40	0.20	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.44		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.032	J	0.50	0.020	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Client Sample ID: 3603-01-B03 (0-2) (Continued)

## Lab Sample ID: 500-235648-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.15		0.025	0.010	mg/L	1		6010B	SPLP East
Nickel	0.028		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.016	0.0086	mg/Kg	1	⊛	7471B	Total/NA
pH	8.9		0.2	0.2	SU	1		9045D	Total/NA

## Client Sample ID: 3603-03-B01 (0-2)

## Lab Sample ID: 500-235648-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.019	J	0.036	0.0061	mg/Kg	1	⊛	8270D	Total/NA
Benzo[a]anthracene	0.15		0.036	0.0049	mg/Kg	1	⊛	8270D	Total/NA
Benzo[a]pyrene	0.21		0.036	0.0070	mg/Kg	1	⊛	8270D	Total/NA
Benzo[b]fluoranthene	0.28		0.036	0.0078	mg/Kg	1	⊛	8270D	Total/NA
Benzo[g,h,i]perylene	0.17		0.036	0.012	mg/Kg	1	⊛	8270D	Total/NA
Benzo[k]fluoranthene	0.088		0.036	0.011	mg/Kg	1	⊛	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.076	J	0.18	0.066	mg/Kg	1	⊛	8270D	Total/NA
Chrysene	0.21		0.036	0.0099	mg/Kg	1	⊛	8270D	Total/NA
Dibenz(a,h)anthracene	0.056		0.036	0.0070	mg/Kg	1	⊛	8270D	Total/NA
Fluoranthene	0.35		0.036	0.0067	mg/Kg	1	⊛	8270D	Total/NA
Fluorene	0.0052	J	0.036	0.0051	mg/Kg	1	⊛	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.036	0.0094	mg/Kg	1	⊛	8270D	Total/NA
Phenanthrene	0.13		0.036	0.0051	mg/Kg	1	⊛	8270D	Total/NA
Pyrene	0.33		0.036	0.0072	mg/Kg	1	⊛	8270D	Total/NA
Antimony	0.28	J	1.1	0.22	mg/Kg	1	⊛	6010B	Total/NA
Arsenic	1.9		0.56	0.19	mg/Kg	1	⊛	6010B	Total/NA
Barium	41		0.56	0.064	mg/Kg	1	⊛	6010B	Total/NA
Beryllium	0.49		0.23	0.053	mg/Kg	1	⊛	6010B	Total/NA
Boron	6.4		2.8	0.26	mg/Kg	1	⊛	6010B	Total/NA
Cadmium	0.14	B	0.11	0.020	mg/Kg	1	⊛	6010B	Total/NA
Calcium	17000		11	1.9	mg/Kg	1	⊛	6010B	Total/NA
Chromium	12		0.56	0.28	mg/Kg	1	⊛	6010B	Total/NA
Cobalt	6.1		0.28	0.074	mg/Kg	1	⊛	6010B	Total/NA
Copper	14		0.56	0.16	mg/Kg	1	⊛	6010B	Total/NA
Iron	11000		11	5.9	mg/Kg	1	⊛	6010B	Total/NA
Lead	24		0.28	0.13	mg/Kg	1	⊛	6010B	Total/NA
Magnesium	9600		5.6	2.8	mg/Kg	1	⊛	6010B	Total/NA
Manganese	320		0.56	0.082	mg/Kg	1	⊛	6010B	Total/NA
Nickel	15		0.56	0.16	mg/Kg	1	⊛	6010B	Total/NA
Potassium	730		28	10	mg/Kg	1	⊛	6010B	Total/NA
Silver	0.25	J	0.28	0.073	mg/Kg	1	⊛	6010B	Total/NA
Sodium	830		56	8.3	mg/Kg	1	⊛	6010B	Total/NA
Vanadium	17		0.28	0.066	mg/Kg	1	⊛	6010B	Total/NA
Zinc	47		1.1	0.49	mg/Kg	1	⊛	6010B	Total/NA
Barium	0.26	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J	0.50	0.050	mg/L	1		6010B	TCLP
Manganese	1.7		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.040	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.44		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.032		0.018	0.0094	mg/Kg	1	⊛	7471B	Total/NA
pH	9.1		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-01-B03 (0-2)**

**Lab Sample ID: 500-235648-13**

Date Collected: 06/22/23 14:15

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016		0.016	0.0068	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Benzene	<0.0016		0.0016	0.00040	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Bromodichloromethane	<0.0016		0.0016	0.00032	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Bromoform	<0.0016		0.0016	0.00046	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Bromomethane	<0.0039		0.0039	0.0015	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
2-Butanone (MEK)	<0.0039		0.0039	0.0017	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Carbon disulfide	<0.0039	+	0.0039	0.00082	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Carbon tetrachloride	<0.0016	+	0.0016	0.00046	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Chlorobenzene	<0.0016		0.0016	0.00058	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Chloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Chloroform	<0.0016		0.0016	0.00055	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Chloromethane	<0.0039	+	0.0039	0.0016	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00044	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00047	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Dibromochloromethane	<0.0016		0.0016	0.00051	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,1-Dichloroethane	<0.0016		0.0016	0.00054	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,2-Dichloroethane	<0.0039		0.0039	0.0012	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,1-Dichloroethene	<0.0016	+	0.0016	0.00054	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,2-Dichloropropane	<0.0016		0.0016	0.00041	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,3-Dichloropropene, Total	<0.0016		0.0016	0.00055	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Ethylbenzene	<0.0016		0.0016	0.00075	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
2-Hexanone	<0.0039		0.0039	0.0012	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Methylene Chloride	<0.0039	+	0.0039	0.0015	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
4-Methyl-2-pentanone (MIBK)	<0.0039		0.0039	0.0012	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00046	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Styrene	<0.0016		0.0016	0.00047	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00050	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Tetrachloroethene	<0.0016		0.0016	0.00054	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Toluene	<0.0016		0.0016	0.00040	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
trans-1,2-Dichloroethene	<0.0016	+	0.0016	0.00070	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00055	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00053	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00067	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Trichloroethene	<0.0016		0.0016	0.00053	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Vinyl acetate	<0.0039		0.0039	0.0014	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Vinyl chloride	<0.0016		0.0016	0.00070	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1
Xylenes, Total	<0.0031		0.0031	0.00050	mg/Kg	☼	06/23/23 19:25	06/27/23 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	06/23/23 19:25	06/27/23 18:59	1
Dibromofluoromethane	103		75 - 126	06/23/23 19:25	06/27/23 18:59	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	06/23/23 19:25	06/27/23 18:59	1
Toluene-d8 (Surr)	92		75 - 124	06/23/23 19:25	06/27/23 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.034		0.034	0.0061	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Acenaphthylene	<0.034		0.034	0.0045	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Anthracene</b>	<b>0.0085</b>	<b>J</b>	0.034	0.0057	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Benzo[a]anthracene</b>	<b>0.065</b>		0.034	0.0046	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-01-B03 (0-2)**

**Lab Sample ID: 500-235648-13**

Date Collected: 06/22/23 14:15

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.086</b>		0.034	0.0066	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Benzo[b]fluoranthene</b>	<b>0.12</b>		0.034	0.0073	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Benzo[g,h,i]perylene</b>	<b>0.063</b>		0.034	0.011	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Benzo[k]fluoranthene</b>	<b>0.045</b>		0.034	0.010	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Bis(2-chloroethoxy)methane	<0.17		0.17	0.035	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Bis(2-chloroethyl)ether	<0.17		0.17	0.051	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.062	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
4-Bromophenyl phenyl ether	<0.17		0.17	0.045	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Butyl benzyl phthalate	<0.17		0.17	0.064	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Carbazole	<0.17		0.17	0.085	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
4-Chloroaniline	<0.68		0.68	0.16	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
4-Chloro-3-methylphenol	<0.34		0.34	0.12	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2-Chloronaphthalene	<0.17		0.17	0.037	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2-Chlorophenol	<0.17		0.17	0.058	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
4-Chlorophenyl phenyl ether	<0.17		0.17	0.040	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Chrysene</b>	<b>0.084</b>		0.034	0.0092	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Dibenz(a,h)anthracene</b>	<b>0.033</b>	J	0.034	0.0065	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Dibenzofuran	<0.17		0.17	0.040	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
1,2-Dichlorobenzene	<0.17		0.17	0.040	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
1,3-Dichlorobenzene	<0.17		0.17	0.038	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
1,4-Dichlorobenzene	<0.17		0.17	0.043	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.047	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2,4-Dichlorophenol	<0.34		0.34	0.080	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Diethyl phthalate	<0.17		0.17	0.057	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2,4-Dimethylphenol	<0.34		0.34	0.13	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Dimethyl phthalate	<0.17		0.17	0.044	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Di-n-butyl phthalate	<0.17		0.17	0.052	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
4,6-Dinitro-2-methylphenol	<0.68		0.68	0.27	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2,4-Dinitrophenol	<0.68		0.68	0.60	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2,4-Dinitrotoluene	<0.17		0.17	0.054	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2,6-Dinitrotoluene	<0.17		0.17	0.067	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Di-n-octyl phthalate	<0.17		0.17	0.055	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Fluoranthene</b>	<b>0.13</b>		0.034	0.0063	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Fluorene	<0.034		0.034	0.0048	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Hexachlorobenzene	<0.068		0.068	0.0078	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Hexachlorobutadiene	<0.17		0.17	0.053	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Hexachlorocyclopentadiene	<0.68	*	0.68	0.19	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Hexachloroethane	<0.17		0.17	0.051	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.10</b>		0.034	0.0088	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Isophorone	<0.17		0.17	0.038	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2-Methylnaphthalene	<0.068		0.068	0.0062	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2-Methylphenol	<0.17		0.17	0.054	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
3 & 4 Methylphenol	<0.17		0.17	0.056	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Naphthalene	<0.034		0.034	0.0052	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2-Nitroaniline	<0.17		0.17	0.046	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
3-Nitroaniline	<0.34		0.34	0.10	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
4-Nitroaniline	<0.34		0.34	0.14	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
Nitrobenzene	<0.034		0.034	0.0084	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1
2-Nitrophenol	<0.34		0.34	0.080	mg/Kg	☼	06/30/23 07:02	06/30/23 16:56	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-01-B03 (0-2)**

**Lab Sample ID: 500-235648-13**

Date Collected: 06/22/23 14:15

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.68		0.68	0.32	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
N-Nitrosodi-n-propylamine	<0.068		0.068	0.041	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
N-Nitrosodiphenylamine	<0.17		0.17	0.040	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
2,2'-oxybis[1-chloropropane]	<0.17		0.17	0.039	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
Pentachlorophenol	<0.68		0.68	0.54	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
<b>Phenanthrene</b>	<b>0.058</b>		0.034	0.0047	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
Phenol	<0.17		0.17	0.075	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
<b>Pyrene</b>	<b>0.14</b>		0.034	0.0067	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.036	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
2,4,5-Trichlorophenol	<0.34		0.34	0.077	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
2,4,6-Trichlorophenol	<0.34		0.34	0.12	mg/Kg	✳	06/30/23 07:02	06/30/23 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		43 - 145				06/30/23 07:02	06/30/23 16:56	1
2-Fluorophenol (Surr)	63		31 - 166				06/30/23 07:02	06/30/23 16:56	1
Nitrobenzene-d5 (Surr)	63		37 - 147				06/30/23 07:02	06/30/23 16:56	1
Phenol-d5 (Surr)	67		30 - 153				06/30/23 07:02	06/30/23 16:56	1
Terphenyl-d14 (Surr)	74		42 - 157				06/30/23 07:02	06/30/23 16:56	1
2,4,6-Tribromophenol (Surr)	45		31 - 143				06/30/23 07:02	06/30/23 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.25</b>	<b>J</b>	1.0	0.20	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Arsenic</b>	<b>3.6</b>		0.50	0.17	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Barium</b>	<b>33</b>		0.50	0.057	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Beryllium</b>	<b>0.35</b>		0.20	0.047	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Boron</b>	<b>2.8</b>		2.5	0.23	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Cadmium</b>	<b>0.16</b>	<b>B</b>	0.10	0.018	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Calcium</b>	<b>13000</b>		10	1.7	mg/Kg	✳	06/23/23 14:58	06/27/23 17:44	1
<b>Chromium</b>	<b>8.2</b>		0.50	0.25	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Cobalt</b>	<b>4.0</b>		0.25	0.066	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Copper</b>	<b>11</b>		0.50	0.14	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Iron</b>	<b>8100</b>		10	5.2	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Lead</b>	<b>17</b>		0.25	0.12	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Magnesium</b>	<b>7800</b>		5.0	2.5	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Manganese</b>	<b>210</b>		0.50	0.073	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Nickel</b>	<b>11</b>		0.50	0.15	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Potassium</b>	<b>450</b>		25	8.9	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
Selenium	<0.50		0.50	0.29	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Silver</b>	<b>0.17</b>	<b>J</b>	0.25	0.065	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Sodium</b>	<b>310</b>		50	7.4	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
Thallium	<0.50		0.50	0.25	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Vanadium</b>	<b>13</b>		0.25	0.059	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1
<b>Zinc</b>	<b>33</b>		1.0	0.44	mg/Kg	✳	06/23/23 14:58	06/26/23 23:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		06/29/23 16:47	06/30/23 11:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/29/23 16:47	06/30/23 11:45	1
<b>Boron</b>	<b>0.17</b>	<b>J</b>	0.50	0.050	mg/L		06/29/23 16:47	06/30/23 11:45	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-01-B03 (0-2)**

**Lab Sample ID: 500-235648-13**

Date Collected: 06/22/23 14:15

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		06/29/23 16:47	06/30/23 11:45	1
Chromium	<0.025		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 11:45	1
Cobalt	<0.025		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 11:45	1
<b>Iron</b>	<b>0.22</b>	<b>J</b>	0.40	0.20	mg/L		06/29/23 16:47	06/30/23 11:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		06/29/23 16:47	06/30/23 11:45	1
<b>Manganese</b>	<b>1.7</b>		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 11:45	1
<b>Nickel</b>	<b>0.44</b>		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 11:45	1
Selenium	<0.050		0.050	0.020	mg/L		06/29/23 16:47	06/30/23 11:45	1
Silver	<0.025		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 11:45	1
<b>Zinc</b>	<b>0.032</b>	<b>J</b>	0.50	0.020	mg/L		06/29/23 16:47	06/30/23 11:45	1

**Method: SW846 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.15</b>		0.025	0.010	mg/L		06/29/23 16:48	06/30/23 15:51	1
<b>Nickel</b>	<b>0.028</b>		0.025	0.010	mg/L		06/29/23 16:48	06/30/23 15:51	1

**Method: SW846 6020B - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/29/23 16:47	07/03/23 23:32	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/29/23 16:47	07/03/23 23:32	1

**Method: SW846 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		06/30/23 11:45	07/03/23 09:44	1

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.041</b>		0.016	0.0086	mg/Kg	☼	07/03/23 12:55	07/05/23 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>8.9</b>		0.2	0.2	SU			06/27/23 17:02	1

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## GC/MS VOA

### Prep Batch: 720335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	5035	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	5035	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	5035	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	5035	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	5035	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	5035	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	5035	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	5035	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	5035	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	5035	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	5035	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	5035	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	5035	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	5035	

### Analysis Batch: 720608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	8260B	720335
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	8260B	720335
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	8260B	720335
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	8260B	720335
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	8260B	720335
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	8260B	720335
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	8260B	720335
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	8260B	720335
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	8260B	720335
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	8260B	720335
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	8260B	720335
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	8260B	720335
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	8260B	720335
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	8260B	720335
MB 500-720608/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-720608/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-720608/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 721184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	3541	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	3541	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	3541	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	3541	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	3541	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	3541	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	3541	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	3541	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	3541	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	3541	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	3541	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	3541	

Eurofins Chicago



# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 721184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	3541	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	3541	
MB 500-721184/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-721184/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-235648-1 MS	3603-03-B09 (0-4)	Total/NA	Solid	3541	
500-235648-1 MSD	3603-03-B09 (0-4)	Total/NA	Solid	3541	

### Analysis Batch: 721203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	8270D	721184
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	8270D	721184
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	8270D	721184
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	8270D	721184
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	8270D	721184
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	8270D	721184
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	8270D	721184
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	8270D	721184
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	8270D	721184
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	8270D	721184
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	8270D	721184
MB 500-721184/1-A	Method Blank	Total/NA	Solid	8270D	721184
LCS 500-721184/2-A	Lab Control Sample	Total/NA	Solid	8270D	721184
500-235648-1 MS	3603-03-B09 (0-4)	Total/NA	Solid	8270D	721184
500-235648-1 MSD	3603-03-B09 (0-4)	Total/NA	Solid	8270D	721184

### Analysis Batch: 721493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	8270D	721184
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	8270D	721184
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	8270D	721184

## Metals

### Prep Batch: 720229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	3050B	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	3050B	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	3050B	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	3050B	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	3050B	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	3050B	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	3050B	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	3050B	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	3050B	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	3050B	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	3050B	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	3050B	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	3050B	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-720229/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-720229/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Prep Batch: 720229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-10 MS	3603-03-B03 (0-4)	Total/NA	Solid	3050B	
500-235648-10 MSD	3603-03-B03 (0-4)	Total/NA	Solid	3050B	
500-235648-10 DU	3603-03-B03 (0-4)	Total/NA	Solid	3050B	

### Analysis Batch: 720623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	6010B	720229
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	6010B	720229
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	6010B	720229
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	6010B	720229
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	6010B	720229
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	6010B	720229
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	6010B	720229
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	6010B	720229
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	6010B	720229
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	6010B	720229
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	6010B	720229
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	6010B	720229
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	6010B	720229
MB 500-720229/1-A	Method Blank	Total/NA	Solid	6010B	720229
LCS 500-720229/2-A	Lab Control Sample	Total/NA	Solid	6010B	720229
500-235648-10 MS	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229
500-235648-10 MSD	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229
500-235648-10 DU	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229

### Analysis Batch: 720832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	6010B	720229
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	6010B	720229
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	6010B	720229
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	6010B	720229
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	6010B	720229

### Leach Batch: 720879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	1311	
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	1311	
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	1311	
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	1311	
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	1311	
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	1311	
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	1311	
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	1311	
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	1311	
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	1311	
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	1311	
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	1311	
LB 500-720879/1-D	Method Blank	TCLP	Solid	1311	
LB 500-720879/1-F	Method Blank	TCLP	Solid	1311	
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	1311	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Leach Batch: 720879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	1311	

### Leach Batch: 720882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	1311	
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	1311	
LB 500-720882/1-B	Method Blank	TCLP	Solid	1311	
LB 500-720882/1-D	Method Blank	TCLP	Solid	1311	

### Leach Batch: 720884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	SPLP East	Solid	1312	
500-235648-2	3603-03-B08 (0-4)	SPLP East	Solid	1312	
500-235648-3	3603-03-B10 (0-2)	SPLP East	Solid	1312	
500-235648-4	3603-03-B04 (0-4)	SPLP East	Solid	1312	
500-235648-5	3603-03-B04 (0-4) DUP	SPLP East	Solid	1312	
500-235648-6	3603-03-B05 (0-4)	SPLP East	Solid	1312	
500-235648-7	3603-03-B06 (0-3)	SPLP East	Solid	1312	
500-235648-8	3603-03-B07 (0-4)	SPLP East	Solid	1312	
500-235648-9	3603-03-B02 (0-4)	SPLP East	Solid	1312	
500-235648-10	3603-03-B03 (0-4)	SPLP East	Solid	1312	
500-235648-11	3603-01-B01 (0-2)	SPLP East	Solid	1312	
500-235648-12	3603-01-B02 (0-2)	SPLP East	Solid	1312	
500-235648-13	3603-01-B03 (0-2)	SPLP East	Solid	1312	
500-235648-14	3603-03-B01 (0-2)	SPLP East	Solid	1312	
LB 500-720884/2-B	Method Blank	SPLP East	Solid	1312	
500-235648-14 MS	3603-03-B01 (0-2)	SPLP East	Solid	1312	
500-235648-14 DU	3603-03-B01 (0-2)	SPLP East	Solid	1312	

### Prep Batch: 721156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	3010A	720879
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	3010A	720879
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	3010A	720879
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	3010A	720879
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	3010A	720879
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	3010A	720879
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	3010A	720879
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	3010A	720879
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	3010A	720879
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	3010A	720879
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	3010A	720879
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	3010A	720879
LB 500-720879/1-D	Method Blank	TCLP	Solid	3010A	720879
LCS 500-721156/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	3010A	720879
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	3010A	720879

### Prep Batch: 721160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	3010A	720882

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Prep Batch: 721160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	3010A	720882
LB 500-720882/1-B	Method Blank	TCLP	Solid	3010A	720882
LCS 500-721160/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 721161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	SPLP East	Solid	3010A	720884
500-235648-2	3603-03-B08 (0-4)	SPLP East	Solid	3010A	720884
500-235648-3	3603-03-B10 (0-2)	SPLP East	Solid	3010A	720884
500-235648-4	3603-03-B04 (0-4)	SPLP East	Solid	3010A	720884
500-235648-5	3603-03-B04 (0-4) DUP	SPLP East	Solid	3010A	720884
500-235648-6	3603-03-B05 (0-4)	SPLP East	Solid	3010A	720884
500-235648-7	3603-03-B06 (0-3)	SPLP East	Solid	3010A	720884
500-235648-8	3603-03-B07 (0-4)	SPLP East	Solid	3010A	720884
500-235648-9	3603-03-B02 (0-4)	SPLP East	Solid	3010A	720884
500-235648-10	3603-03-B03 (0-4)	SPLP East	Solid	3010A	720884
500-235648-11	3603-01-B01 (0-2)	SPLP East	Solid	3010A	720884
500-235648-12	3603-01-B02 (0-2)	SPLP East	Solid	3010A	720884
500-235648-13	3603-01-B03 (0-2)	SPLP East	Solid	3010A	720884
500-235648-14	3603-03-B01 (0-2)	SPLP East	Solid	3010A	720884
LB 500-720884/2-B	Method Blank	SPLP East	Solid	3010A	720884
LCS 500-721161/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-235648-14 MS	3603-03-B01 (0-2)	SPLP East	Solid	3010A	720884
500-235648-14 DU	3603-03-B01 (0-2)	SPLP East	Solid	3010A	720884

### Prep Batch: 721293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	7470A	720879
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	7470A	720879
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	7470A	720879
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	7470A	720879
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	7470A	720879
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	7470A	720879
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	7470A	720879
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	7470A	720879
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	7470A	720879
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	7470A	720879
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	7470A	720879
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	7470A	720879
LB 500-720879/1-F	Method Blank	TCLP	Solid	7470A	720879
MB 500-721293/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-721293/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	7470A	720879
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	7470A	720879

### Prep Batch: 721299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	7470A	720882
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	7470A	720882
LB 500-720882/1-D	Method Blank	TCLP	Solid	7470A	720882
MB 500-721299/12-A	Method Blank	Total/NA	Solid	7470A	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Prep Batch: 721299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-721299/14-A	Lab Control Sample	Total/NA	Solid	7470A	

### Analysis Batch: 721330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	6010B	721156
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	6010B	721156
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	6010B	721156
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	6010B	721156
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	6010B	721156
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	6010B	721156
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	6010B	721156
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	6010B	721156
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	6010B	721156
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	6010B	721156
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	6010B	721156
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	6010B	721156
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	6010B	721160
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	6010B	721160
LB 500-720879/1-D	Method Blank	TCLP	Solid	6010B	721156
LB 500-720882/1-B	Method Blank	TCLP	Solid	6010B	721160
LCS 500-721156/2-A	Lab Control Sample	Total/NA	Solid	6010B	721156
LCS 500-721160/2-A	Lab Control Sample	Total/NA	Solid	6010B	721160
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	6010B	721156
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	6010B	721156

### Analysis Batch: 721331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 500-721331/16	Lab Control Sample	Total/NA	Solid	6010B	

### Prep Batch: 721470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	7471B	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	7471B	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	7471B	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	7471B	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	7471B	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	7471B	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	7471B	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	7471B	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	7471B	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	7471B	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	7471B	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	7471B	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	7471B	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-721470/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-721470/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-235648-9 MS	3603-03-B02 (0-4)	Total/NA	Solid	7471B	
500-235648-9 MSD	3603-03-B02 (0-4)	Total/NA	Solid	7471B	
500-235648-9 DU	3603-03-B02 (0-4)	Total/NA	Solid	7471B	

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals

### Analysis Batch: 721479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	SPLP East	Solid	6010B	721161
500-235648-2	3603-03-B08 (0-4)	SPLP East	Solid	6010B	721161
500-235648-3	3603-03-B10 (0-2)	SPLP East	Solid	6010B	721161
500-235648-4	3603-03-B04 (0-4)	SPLP East	Solid	6010B	721161
500-235648-5	3603-03-B04 (0-4) DUP	SPLP East	Solid	6010B	721161
500-235648-6	3603-03-B05 (0-4)	SPLP East	Solid	6010B	721161
500-235648-7	3603-03-B06 (0-3)	SPLP East	Solid	6010B	721161
500-235648-8	3603-03-B07 (0-4)	SPLP East	Solid	6010B	721161
500-235648-9	3603-03-B02 (0-4)	SPLP East	Solid	6010B	721161
500-235648-10	3603-03-B03 (0-4)	SPLP East	Solid	6010B	721161
500-235648-11	3603-01-B01 (0-2)	SPLP East	Solid	6010B	721161
500-235648-12	3603-01-B02 (0-2)	SPLP East	Solid	6010B	721161
500-235648-13	3603-01-B03 (0-2)	SPLP East	Solid	6010B	721161
500-235648-14	3603-03-B01 (0-2)	SPLP East	Solid	6010B	721161
LB 500-720884/2-B	Method Blank	SPLP East	Solid	6010B	721161
LCS 500-721161/2-A	Lab Control Sample	Total/NA	Solid	6010B	721161
500-235648-14 MS	3603-03-B01 (0-2)	SPLP East	Solid	6010B	721161
500-235648-14 DU	3603-03-B01 (0-2)	SPLP East	Solid	6010B	721161

### Analysis Batch: 721485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	7470A	721293
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	7470A	721293
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	7470A	721293
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	7470A	721293
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	7470A	721293
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	7470A	721293
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	7470A	721293
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	7470A	721293
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	7470A	721293
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	7470A	721293
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	7470A	721293
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	7470A	721293
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	7470A	721299
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	7470A	721299
LB 500-720879/1-F	Method Blank	TCLP	Solid	7470A	721293
LB 500-720882/1-D	Method Blank	TCLP	Solid	7470A	721299
MB 500-721293/12-A	Method Blank	Total/NA	Solid	7470A	721293
MB 500-721299/12-A	Method Blank	Total/NA	Solid	7470A	721299
LCS 500-721293/14-A	Lab Control Sample	Total/NA	Solid	7470A	721293
LCS 500-721299/14-A	Lab Control Sample	Total/NA	Solid	7470A	721299
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	7470A	721293
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	7470A	721293

### Analysis Batch: 721681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	6020B	721156
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	6020B	721156
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	6020B	721156
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	6020B	721156
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	6020B	721156

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Analysis Batch: 721681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	6020B	721156
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	6020B	721156
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	6020B	721156
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	6020B	721156
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	6020B	721156
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	6020B	721156
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	6020B	721156
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	6020B	721160
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	6020B	721160
LB 500-720879/1-D	Method Blank	TCLP	Solid	6020B	721156
LB 500-720882/1-B	Method Blank	TCLP	Solid	6020B	721160
LCS 500-721156/2-A	Lab Control Sample	Total/NA	Solid	6020B	721156
LCS 500-721160/2-A	Lab Control Sample	Total/NA	Solid	6020B	721160
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	6020B	721156
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	6020B	721156

### Analysis Batch: 721731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	7471B	721470
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	7471B	721470
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	7471B	721470
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	7471B	721470
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	7471B	721470
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	7471B	721470
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	7471B	721470
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	7471B	721470
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	7471B	721470
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	7471B	721470
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	7471B	721470
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	7471B	721470
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	7471B	721470
MB 500-721470/12-A	Method Blank	Total/NA	Solid	7471B	721470
LCS 500-721470/13-A	Lab Control Sample	Total/NA	Solid	7471B	721470
500-235648-9 MS	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470
500-235648-9 MSD	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470
500-235648-9 DU	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470

## General Chemistry

### Analysis Batch: 720334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	9045D	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	9045D	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	9045D	
LCS 500-720334/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-720334/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

### Analysis Batch: 720409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	Moisture	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## General Chemistry (Continued)

### Analysis Batch: 720409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	Moisture	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	Moisture	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	Moisture	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	Moisture	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	Moisture	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	Moisture	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	Moisture	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	Moisture	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	Moisture	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	Moisture	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	Moisture	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	Moisture	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	Moisture	

### Analysis Batch: 720738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	9045D	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	9045D	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	9045D	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	9045D	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	9045D	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	9045D	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	9045D	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	9045D	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	9045D	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	9045D	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-720738/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-720738/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-235648-4 DU	3603-03-B04 (0-4)	Total/NA	Solid	9045D	



# Surrogate Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (75-131)	DBFM (75-126)	DCA (70-134)	TOL (75-124)
500-235648-1	3603-03-B09 (0-4)	89	101	94	93
500-235648-2	3603-03-B08 (0-4)	92	102	95	91
500-235648-3	3603-03-B10 (0-2)	92	106	96	91
500-235648-4	3603-03-B04 (0-4)	91	103	98	93
500-235648-5	3603-03-B04 (0-4) DUP	91	98	92	93
500-235648-6	3603-03-B05 (0-4)	88	106	94	88
500-235648-7	3603-03-B06 (0-3)	91	97	92	92
500-235648-8	3603-03-B07 (0-4)	91	99	95	93
500-235648-9	3603-03-B02 (0-4)	91	104	97	92
500-235648-10	3603-03-B03 (0-4)	92	103	95	92
500-235648-11	3603-01-B01 (0-2)	91	107	100	91
500-235648-12	3603-01-B02 (0-2)	96	99	92	96
500-235648-13	3603-01-B03 (0-2)	90	103	94	92
500-235648-14	3603-03-B01 (0-2)	87	107	98	88
LCS 500-720608/3	Lab Control Sample	88	92	84	93
LCS 500-720608/4	Lab Control Sample Dup	85	95	84	93
MB 500-720608/6	Method Blank	90	100	91	91

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-235648-1	3603-03-B09 (0-4)	82	78	44	83	90	53
500-235648-1 MS	3603-03-B09 (0-4)	68	70	48	72	71	42
500-235648-1 MSD	3603-03-B09 (0-4)	70	66	48	70	74	43
500-235648-2	3603-03-B08 (0-4)	77	75	75	74	80	58
500-235648-3	3603-03-B10 (0-2)	62	62	59	64	58	50
500-235648-4	3603-03-B04 (0-4)	73	74	72	73	79	49
500-235648-5	3603-03-B04 (0-4) DUP	84	87	88	88	95	56
500-235648-6	3603-03-B05 (0-4)	65	64	63	65	72	49
500-235648-7	3603-03-B06 (0-3)	70	67	55	70	74	51
500-235648-8	3603-03-B07 (0-4)	67	63	66	65	72	48
500-235648-9	3603-03-B02 (0-4)	80	76	74	77	86	58
500-235648-10	3603-03-B03 (0-4)	63	61	61	61	69	43
500-235648-11	3603-01-B01 (0-2)	61	61	56	68	61	54
500-235648-12	3603-01-B02 (0-2)	75	70	67	79	82	75
500-235648-13	3603-01-B03 (0-2)	66	63	63	67	74	45
500-235648-14	3603-03-B01 (0-2)	64	61	62	63	73	45
LCS 500-721184/2-A	Lab Control Sample	90	91	89	91	94	69
MB 500-721184/1-A	Method Blank	82	81	80	80	86	50

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

Eurofins Chicago

# Lab Chronicle

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-01-B03 (0-2)**  
Date Collected: 06/22/23 14:15  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-13**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			720884	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
SPLP East	Prep	3010A			721161	RN	EET CHI	06/29/23 16:48 - 06/29/23 17:18 <sup>1</sup>
SPLP East	Analysis	6010B		1	721479	FXG	EET CHI	06/30/23 15:51
TCLP	Leach	1311			720882	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721160	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6010B		1	721330	OAJ	EET CHI	06/30/23 11:45
TCLP	Leach	1311			720882	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721160	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6020B		1	721681	FXG	EET CHI	07/03/23 23:32
TCLP	Leach	1311			720882	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	7470A			721299	MJG	EET CHI	06/30/23 11:45 - 06/30/23 13:45 <sup>1</sup>
TCLP	Analysis	7470A		1	721485	MJG	EET CHI	07/03/23 09:44
Total/NA	Analysis	9045D		1	720738	LWN	EET CHI	06/27/23 17:02
Total/NA	Analysis	Moisture		1	720409	LWN	EET CHI	06/26/23 10:04

**Client Sample ID: 3603-01-B03 (0-2)**  
Date Collected: 06/22/23 14:15  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-13**  
Matrix: Solid  
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			720335	WRE	EET CHI	06/23/23 19:25
Total/NA	Analysis	8260B		1	720608	W1T	EET CHI	06/27/23 18:59
Total/NA	Prep	3541			721184	GM	EET CHI	06/30/23 07:02 - 06/30/23 11:49 <sup>1</sup>
Total/NA	Analysis	8270D		1	721203	SS	EET CHI	06/30/23 16:56
Total/NA	Prep	3050B			720229	RN	EET CHI	06/23/23 14:58 - 06/23/23 15:28 <sup>1</sup>
Total/NA	Analysis	6010B		1	720623	CMS	EET CHI	06/26/23 23:58
Total/NA	Prep	3050B			720229	RN	EET CHI	06/23/23 14:58 - 06/23/23 15:28 <sup>1</sup>
Total/NA	Analysis	6010B		1	720832	OAJ	EET CHI	06/27/23 17:44
Total/NA	Prep	7471B			721470	MJG	EET CHI	07/03/23 12:55
Total/NA	Analysis	7471B		1	721731	MJG	EET CHI	07/05/23 14:40

**Client Sample ID: 3603-03-B01 (0-2)**  
Date Collected: 06/22/23 14:30  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-14**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			720884	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
SPLP East	Prep	3010A			721161	RN	EET CHI	06/29/23 16:48 - 06/29/23 17:18 <sup>1</sup>
SPLP East	Analysis	6010B		1	721479	FXG	EET CHI	06/30/23 15:55
TCLP	Leach	1311			720882	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721160	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6010B		1	721330	OAJ	EET CHI	06/30/23 11:49
TCLP	Leach	1311			720882	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721160	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6020B		1	721681	FXG	EET CHI	07/03/23 23:38

Eurofins Chicago

# Chain of Custody Record

667486



Environment Testin  
America

TAL-8211

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager <b>D. Tiebout</b>		Site Contact <b>T. Trojnar</b>		Date <b>6-</b>		COC No	
Company Name <b>WSP</b>		Tel/Email		Lab Contact		Carrier		2 of 2 COCs	
Address <b>30 N LaSalle</b>		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
City/State/Zip <b>Chicago IL</b>									
Phone		Filtered Sample (Y/N)   Perform MS/MSD (Y/N)   <b>PH</b>   <b>1. Solids</b>   <b>DOC</b>   <b>SUCCS</b>   <b>Total Metals</b>   <b>TCLP *</b>							
Fax									
Project Name <b>IDOT WSP 11 W020-FAI 44</b>									
Site <b>31403035.020</b>									
PO#		Job / SDG No <b>500-235648</b>							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
13	3603-01-B03 (0-2)	6/22/23	1415	C	S	2	X	blue cooler	
14	3603-03-B01 (0-2)	6/22/23	1430	C	S	2	X		
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 <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <b>* SPLP analysis based on TCLP results</b>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____			
Relinquished by <b>[Signature]</b>		Company <b>WSP</b>		Date/Time <b>6/22/23/1700</b>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by <b>Stephanie Hernandez</b>		Company <b>EETA</b>	
								Date/Time <b>6/22/23 1700</b>	

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-235648-1

**Login Number: 235648**

**List Number: 1**

**Creator: James, Jeff A**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# 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: FAI 94/FAU 1332 (I-94/ Oakton Street) Office Phone Number, if available: \_\_\_\_\_

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

5700 Block of Oakton Street (intersection of Edens Expressway and Oakton Street) ISGS #3603-3 (ROW)

City: Morton Grove and Skokie State: IL Zip Code: 60053

County: Cook Township: Niles

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

Latitude: 42.02653 Longitude: -87.76914  
(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: 0312888602 BOW: \_\_\_\_\_ BOA: \_\_\_\_\_

Approximate Start Date (mm/dd/yyyy): \_\_\_\_\_ Approximate End Date (mm/dd/yyyy): \_\_\_\_\_

Estimated Volume of debris (cu. Yd.): 641

### II. Owner/Operator Information for Source Site

Site Owner

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

Site Operator

Name: Illinois Department of Transportation

Street Address: 201 West Center Court

PO Box: \_\_\_\_\_

City: Schaumburg State: IL

Zip Code: 60196-1096 Phone: 847-705-4122

Contact: Irma Romiti-Johnson

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

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

Uncontaminated Soil Certification

**III. Basis for Certification and Attachments**

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

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

Locations 3603-03-B08, 3603-03-B09, and 3603-03-B12 were sampled within the construction zone adjacent to ISGS #3603-3 (ROW). Refer to PSI Report for ISGS #3603-3 (ROW) including Table 4-3, and Figure 4-3 and 4-4.

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]:

See attached data summary table and associated laboratory data packages J235648-1 and J38387-1.

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

I, Thomas C. Campbell, P.E. (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.

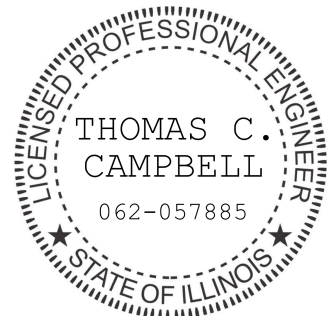
**Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))**

Company Name: WSP USA  
Street Address: 115 W Washington St., Suite 1270S  
City: Indianapolis State: IN Zip Code: 46204  
Phone: (317) 972-1706

Thomas C. Campbell, P.E.  
Printed Name:

  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

Sep 21, 2023  
Date:



Expires 11/30/2023

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





## Analytical Data Summary

PTB #196-002; IDOT Job # D-91-441-20; Work Order 20 - IDOT Project # D-91-367-20

### Key to Data Tables

- MAC = Maximum Allowable Concentration of Chemical Constituent in  
Uncontaminated Soil Used as Fill Material At Regulated Fill Operations
- mg/kg = Milligrams per kilogram.
- mg/L = Milligrams per liter.
- MSA = Metropolitan Statistical Area
- TACO = Tiered Approach to Corrective Action Objectives
- TCLP = Toxicity Characteristic Leaching Procedure.
- SCGIER = Soil Component of the Groundwater Ingestion Exposure Route
- SPLP = Synthetic Precipitation Leaching Procedure.
- ND = Not detected.
- NA = Not analyzed or not applicable.
- J = Estimated value.
- U = Analyte was analyzed for but not detected.
- PID = Photoionization detector.
- = No PID readings detected above background (within instrument margin of error).

### Criteria Qualifiers and Shading

- # = pH is less than 6.25 or greater than 9.0 standard units.
- † = Concentration exceeds the most stringent MAC.
- m = Concentration exceeds the MAC for an MSA.
- \* = Concentration exceeds the MAC for Chicago corporate limits.
- c = Concentration exceeds a TACO Tier 1 RO for the Construction Worker Exposure Route.
- r = Concentration exceeds a TACO Tier 1 soil RO for residential properties.
- L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 RO for the SCGIER.
-  = Headspace reading exceeds background levels
-  = Concentration exceeds the most stringent MAC only
-  = Concentration exceeds the Chicago-Specific MAC.
-  = Concentration exceeds applicable comparison criteria.

CONTAMINANTS OF CONCERN

SITE	ISGS #3603-3 (ROW)			Comparison Criteria					
	3603-03-B08	3603-03-B09	3603-03-B12	MACs			TACO		
SAMPLE	3603-03-B08 (0-4)	3603-03-B09 (0-4)	3603-03-B12 (0-4)	Most Stringent	MSA	Chicago	Residential	Construction Worker	SCGIER
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-4	0-4	0-4						
pH	7.2	7.4	9.0						
PID (MU)	--	--	--						
<b>VOCs (mg/kg)</b>									
Acetone	ND U	ND U	ND U	25	--	--	70,000	100,000	--
<b>SVOCs (mg/kg)</b>									
2-Methylnaphthalene	0.045 J	0.015 J	ND U	--	--	--	--	--	--
Acenaphthene	0.24	0.072	ND U	570	--	0.939	4,700	120,000	--
Acenaphthylene	0.0084 J	0.013 J	ND U	--	--	0.253	--	--	--
Anthracene	0.34	0.14	0.018 J	12,000	--	2.62	23,000	610,000	--
Benzo(a)anthracene	0.94 †	0.35 J	0.087	0.9	1.8	10.9	1.8	170	--
Benzo(a)pyrene	1.0 †	0.41 J †	0.10 †	0.09	2.1	11.4	2.1	17	--
Benzo(b)fluoranthene	1.1 †	0.58 J	0.15	0.9	2.1	13.1	2.1	170	--
Benzo(g,h,i)perylene	0.54	0.19 J	0.083	--	--	4.44	--	--	--
Benzo(k)fluoranthene	0.40	0.20 J	0.052	9	--	8.14	9	1,700	--
Bis(2-ethylhexyl) phthalate	0.16 J	ND UJ	ND UJ	46	--	--	46	4,100	--
Carbazole	0.20	ND U	ND U	0.6	--	--	32	6,200	--
Chrysene	0.98	0.38	0.11	88	--	10.6	88	17,000	--
Dibenz(a,h)anthracene	0.15 †	0.072 J	0.039	0.09	0.42	1.03	0.42	17	--
Dibenzofuran	0.10 J	ND U	ND U	--	--	--	--	--	--
Fluoranthene	1.9	0.79 J	0.17	3,100	--	27.6	3,100	82,000	--
Fluorene	0.17	0.057	ND U	560	--	1.11	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.78	0.30 J	0.12 J	0.9	1.6	5.77	1.6	170	--
Naphthalene	0.19	0.023 J	0.0075 J	1.8	--	0.258	170	1.8	--
Phenanthrene	1.3	0.56	0.086	--	--	15.3	--	--	--
Pyrene	1.8 J	0.75 J	0.16	2,300	--	17.9	2,300	61,000	--
<b>Inorganics (mg/kg)</b>									
Antimony	0.38 J	0.55 J	ND U	5	--	--	31	82	--
Arsenic	5.2	5.6	3.5	11.3	13	--	13	61	--
Barium	46	50	46	1,500	--	--	5,500	14,000	--
Beryllium	0.43	0.54	0.55	22	--	--	160	410	--
Boron	3.2	4.8	8.5	40	--	--	16,000	41,000	--
Cadmium	0.36	0.53	ND U	5.2	--	--	78	200	--
Calcium	9,200	18,000	22,000	--	--	--	--	--	--
Chromium	9.9	12	10	21	--	--	230	690	--
Cobalt	5.6	6.6	5.5	20	--	--	4,700	12,000	--
Copper	16	18	16 J+	2,900	--	--	2,900	8,200	--
Iron	9,800	13,000	10,000	15,000	15,900	--	--	--	--
Lead	89	110 †	100	107	--	--	400	700	--
Magnesium	5,200	11,000	12,000	325,000	--	--	--	730,000	--
Manganese	360	370	250	630	636	--	1,600	4,100	--
Mercury	0.052	0.041	0.034	0.89	--	--	10	0.1	--
Nickel	12	16	14	100	--	--	1,600	4,100	--
Potassium	680	1,000	1,000	--	--	--	--	--	--
Selenium	ND U	0.32 J	0.38 J	1.3	--	--	390	1,000	--
Silver	0.15 J	0.24 J	ND U	4.4	--	--	390	1,000	--
Sodium	67	230	450	--	--	--	--	--	--
Thallium	0.34 J	ND U	ND U	2.6	--	--	6.3	160	--
Vanadium	16	17	15	550	--	--	550	1,400	--
Zinc	66	75	99	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>									
Barium	0.29 J	0.31 J	0.27 J	--	--	--	--	--	2
Cadmium	0.0022 J	0.0034 J	0.0032 J	--	--	--	--	--	0.005
Iron	ND U	ND U	0.39 J	--	--	--	--	--	5
Lead	0.012 L	ND U	0.073 L	--	--	--	--	--	0.0075
Manganese	1.1 L	0.49 L	1.8 L	--	--	--	--	--	0.15
Nickel	ND U	0.043	ND U	--	--	--	--	--	0.1
Zinc	0.061 J	0.041 J	0.43 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>									
Lead	0.041 L	NA	0.23 L	--	--	--	--	--	0.0075
Manganese	0.087	0.27 L	0.31 L	--	--	--	--	--	0.15





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dean Tiebot  
WSP USA Inc.  
30 North LaSalle Street  
Chicago, Illinois 60602

Generated 7/6/2023 11:03:21 AM

## JOB DESCRIPTION

IDOT - 196-002-WO20 FAI 94

## JOB NUMBER

500-235648-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



Generated  
7/6/2023 11:03:21 AM

Authorized for release by  
Jim Knapp, Project Manager II  
[Jim.Knapp@et.eurofinsus.com](mailto:Jim.Knapp@et.eurofinsus.com)  
(630)758-0262



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	6
Method Summary . . . . .	19
Sample Summary . . . . .	20
Client Sample Results . . . . .	21
Definitions . . . . .	77
QC Association . . . . .	79
Surrogate Summary . . . . .	88
QC Sample Results . . . . .	90
Chronicle . . . . .	109
Certification Summary . . . . .	120
Chain of Custody . . . . .	121
Receipt Checklists . . . . .	123

# Case Narrative

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Job ID: 500-235648-1

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-235648-1

#### Receipt

The samples were received on 6/22/2023 5:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.5° C and 4.8° C.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 500-720335 and analytical batch 500-720608 recovered outside control limits for the following analytes: Carbon disulfide, Carbon tetrachloride, Chloromethane, Methylene Chloride, 1,1-Dichloroethene and trans-1,2-Dichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-721203 was outside the method criteria for the following analytes: 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate and Pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-721203 was outside the method criteria for the following analyte: Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with preparation batch 500-721184 and analytical batch 500-721203 had 1 analyte outside control limits: Hexachlorocyclopentadiene. These results have been reported and qualified.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample and associated MS/MSD was outside of acceptance limits. No further corrective action was required as the matrix effect was confirmed on the parent sample from the subsequent MS/MSD analysis. 3603-03-B09 (0-4) (500-235648-1), (500-235648-E-1-G MS) and (500-235648-E-1-H MSD)

Method 8270D: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-721184 and analytical batch 500-721203 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-721493 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2-Nitroaniline, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, Isophorone, N-Nitrosodi-n-propylamine and Pentachlorophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: 3603-03-B10 (0-2) (500-235648-3), 3603-01-B01 (0-2) (500-235648-11) and 3603-01-B02 (0-2) (500-235648-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

# Case Narrative

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

---

## Job ID: 500-235648-1 (Continued)

---

### Laboratory: Eurofins Chicago (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Detection Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B09 (0-4)**

**Lab Sample ID: 500-235648-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.072		0.036	0.0065	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.013	J	0.036	0.0048	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.14		0.036	0.0060	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.35	F1	0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.41	*3	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.58	*3	0.036	0.0078	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.19	F1 *3	0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.20	*3	0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.38		0.036	0.0099	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.072	F1 *3	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.79	F1	0.036	0.0067	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.057		0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.30	F1 *3	0.036	0.0094	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.015	J	0.073	0.0066	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.023	J	0.036	0.0056	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.56		0.036	0.0050	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.75		0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.55	J	1.1	0.21	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.6		0.55	0.19	mg/Kg	1	✳	6010B	Total/NA
Barium	50		0.55	0.063	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.54		0.22	0.051	mg/Kg	1	✳	6010B	Total/NA
Boron	4.8		2.8	0.26	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.53	B	0.11	0.020	mg/Kg	1	✳	6010B	Total/NA
Calcium	18000	B	11	1.9	mg/Kg	1	✳	6010B	Total/NA
Chromium	12		0.55	0.27	mg/Kg	1	✳	6010B	Total/NA
Cobalt	6.6		0.28	0.072	mg/Kg	1	✳	6010B	Total/NA
Copper	18		0.55	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	13000		11	5.7	mg/Kg	1	✳	6010B	Total/NA
Lead	110		0.28	0.13	mg/Kg	1	✳	6010B	Total/NA
Magnesium	11000		5.5	2.7	mg/Kg	1	✳	6010B	Total/NA
Manganese	370		0.55	0.080	mg/Kg	1	✳	6010B	Total/NA
Nickel	16		0.55	0.16	mg/Kg	1	✳	6010B	Total/NA
Potassium	1000		28	9.8	mg/Kg	1	✳	6010B	Total/NA
Selenium	0.32	J	0.55	0.32	mg/Kg	1	✳	6010B	Total/NA
Silver	0.24	J	0.28	0.071	mg/Kg	1	✳	6010B	Total/NA
Sodium	230		55	8.2	mg/Kg	1	✳	6010B	Total/NA
Vanadium	17		0.28	0.065	mg/Kg	1	✳	6010B	Total/NA
Zinc	75		1.1	0.48	mg/Kg	1	✳	6010B	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.16	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0034	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Manganese	0.49		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.043		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.041	J	0.50	0.020	mg/L	1		6010B	TCLP
Manganese	0.27		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.041		0.017	0.0089	mg/Kg	1	✳	7471B	Total/NA
pH	7.4		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B08 (0-4)**

**Lab Sample ID: 500-235648-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.24		0.036	0.0064	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0084	J	0.036	0.0047	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.34		0.036	0.0060	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.94		0.036	0.0048	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	1.0		0.036	0.0069	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.1		0.036	0.0077	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.54		0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.40		0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.16	J	0.18	0.065	mg/Kg	1	✳	8270D	Total/NA
Carbazole	0.20		0.18	0.089	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.98		0.036	0.0098	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.15		0.036	0.0069	mg/Kg	1	✳	8270D	Total/NA
Dibenzofuran	0.10	J	0.18	0.042	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.9		0.036	0.0066	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.17		0.036	0.0050	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.78		0.036	0.0093	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.045	J	0.072	0.0066	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.19		0.036	0.0055	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	1.3		0.036	0.0050	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.8		0.036	0.0071	mg/Kg	1	✳	8270D	Total/NA
Antimony	0.38	J	1.1	0.20	mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.2		0.53	0.18	mg/Kg	1	✳	6010B	Total/NA
Barium	46		0.53	0.060	mg/Kg	1	✳	6010B	Total/NA
Beryllium	0.43		0.21	0.049	mg/Kg	1	✳	6010B	Total/NA
Boron	3.2		2.6	0.25	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.36	B	0.11	0.019	mg/Kg	1	✳	6010B	Total/NA
Calcium	9200	B	11	1.8	mg/Kg	1	✳	6010B	Total/NA
Chromium	9.9		0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Cobalt	5.6		0.26	0.069	mg/Kg	1	✳	6010B	Total/NA
Copper	16		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Iron	9800		11	5.5	mg/Kg	1	✳	6010B	Total/NA
Lead	89		0.26	0.12	mg/Kg	1	✳	6010B	Total/NA
Magnesium	5200		5.3	2.6	mg/Kg	1	✳	6010B	Total/NA
Manganese	360		0.53	0.076	mg/Kg	1	✳	6010B	Total/NA
Nickel	12		0.53	0.15	mg/Kg	1	✳	6010B	Total/NA
Potassium	680		26	9.3	mg/Kg	1	✳	6010B	Total/NA
Silver	0.15	J	0.26	0.068	mg/Kg	1	✳	6010B	Total/NA
Sodium	67		53	7.8	mg/Kg	1	✳	6010B	Total/NA
Thallium	0.34	J	0.53	0.26	mg/Kg	1	✳	6010B	Total/NA
Vanadium	16		0.26	0.062	mg/Kg	1	✳	6010B	Total/NA
Zinc	66		1.1	0.46	mg/Kg	1	✳	6010B	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Boron	0.18	J B	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0022	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Lead	0.012		0.0075	0.0075	mg/L	1		6010B	TCLP
Manganese	1.1		0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.061	J	0.50	0.020	mg/L	1		6010B	TCLP
Lead	0.041		0.0075	0.0075	mg/L	1		6010B	SPLP East
Manganese	0.087		0.025	0.010	mg/L	1		6010B	SPLP East
Mercury	0.052		0.017	0.0091	mg/Kg	1	✳	7471B	Total/NA
pH	7.2		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Sample Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-235648-1	3603-03-B09 (0-4)	Solid	06/22/23 10:05	06/22/23 17:00
500-235648-2	3603-03-B08 (0-4)	Solid	06/22/23 10:15	06/22/23 17:00
500-235648-3	3603-03-B10 (0-2)	Solid	06/22/23 10:30	06/22/23 17:00
500-235648-4	3603-03-B04 (0-4)	Solid	06/22/23 11:10	06/22/23 17:00
500-235648-5	3603-03-B04 (0-4) DUP	Solid	06/22/23 11:10	06/22/23 17:00
500-235648-6	3603-03-B05 (0-4)	Solid	06/22/23 11:45	06/22/23 17:00
500-235648-7	3603-03-B06 (0-3)	Solid	06/22/23 12:00	06/22/23 17:00
500-235648-8	3603-03-B07 (0-4)	Solid	06/22/23 12:20	06/22/23 17:00
500-235648-9	3603-03-B02 (0-4)	Solid	06/22/23 13:00	06/22/23 17:00
500-235648-10	3603-03-B03 (0-4)	Solid	06/22/23 13:15	06/22/23 17:00
500-235648-11	3603-01-B01 (0-2)	Solid	06/22/23 13:50	06/22/23 17:00
500-235648-12	3603-01-B02 (0-2)	Solid	06/22/23 14:05	06/22/23 17:00
500-235648-13	3603-01-B03 (0-2)	Solid	06/22/23 14:15	06/22/23 17:00
500-235648-14	3603-03-B01 (0-2)	Solid	06/22/23 14:30	06/22/23 17:00





# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B09 (0-4)**

**Lab Sample ID: 500-235648-1**

**Date Collected: 06/22/23 10:05**

**Matrix: Solid**

**Date Received: 06/22/23 17:00**

**Percent Solids: 90.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.020		0.020	0.0089	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Benzene	<0.0020		0.0020	0.00052	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Bromodichloromethane	<0.0020		0.0020	0.00041	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Bromoform	<0.0020		0.0020	0.00059	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Bromomethane	<0.0051		0.0051	0.0019	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
2-Butanone (MEK)	<0.0051		0.0051	0.0023	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Carbon disulfide	<0.0051	*+	0.0051	0.0011	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Carbon tetrachloride	<0.0020	*+	0.0020	0.00059	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Chlorobenzene	<0.0020		0.0020	0.00075	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Chloroethane	<0.0051		0.0051	0.0015	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Chloroform	<0.0020		0.0020	0.00071	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Chloromethane	<0.0051	*+	0.0051	0.0020	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00057	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
cis-1,3-Dichloropropene	<0.0020		0.0020	0.00061	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Dibromochloromethane	<0.0020		0.0020	0.00067	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,1-Dichloroethane	<0.0020		0.0020	0.00070	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,2-Dichloroethane	<0.0051		0.0051	0.0016	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,1-Dichloroethene	<0.0020	*+	0.0020	0.00070	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,2-Dichloropropane	<0.0020		0.0020	0.00053	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00071	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Ethylbenzene	<0.0020		0.0020	0.00097	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
2-Hexanone	<0.0051		0.0051	0.0016	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Methylene Chloride	<0.0051	*+	0.0051	0.0020	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
4-Methyl-2-pentanone (MIBK)	<0.0051		0.0051	0.0015	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00060	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Styrene	<0.0020		0.0020	0.00061	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,1,2,2-Tetrachloroethane	<0.0020		0.0020	0.00065	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Tetrachloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Toluene	<0.0020		0.0020	0.00051	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
trans-1,2-Dichloroethene	<0.0020	*+	0.0020	0.00090	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
trans-1,3-Dichloropropene	<0.0020		0.0020	0.00071	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,1,1-Trichloroethane	<0.0020		0.0020	0.00068	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00087	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Trichloroethene	<0.0020		0.0020	0.00069	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Vinyl acetate	<0.0051		0.0051	0.0018	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Vinyl chloride	<0.0020		0.0020	0.00090	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1
Xylenes, Total	<0.0041		0.0041	0.00065	mg/Kg	☼	06/23/23 19:25	06/27/23 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		75 - 131	06/23/23 19:25	06/27/23 13:52	1
Dibromofluoromethane	101		75 - 126	06/23/23 19:25	06/27/23 13:52	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 134	06/23/23 19:25	06/27/23 13:52	1
Toluene-d8 (Surr)	93		75 - 124	06/23/23 19:25	06/27/23 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.072		0.036	0.0065	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Acenaphthylene	0.013	J	0.036	0.0048	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Anthracene	0.14		0.036	0.0060	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Benzo[a]anthracene	0.35	F1	0.036	0.0049	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B09 (0-4)**

**Lab Sample ID: 500-235648-1**

Date Collected: 06/22/23 10:05

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.41	*3	0.036	0.0070	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Benzo[b]fluoranthene	0.58	*3	0.036	0.0078	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Benzo[g,h,i]perylene	0.19	F1 *3	0.036	0.012	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Benzo[k]fluoranthene	0.20	*3	0.036	0.011	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.037	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.066	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
4-Bromophenyl phenyl ether	<0.18	F1	0.18	0.048	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Butyl benzyl phthalate	<0.18		0.18	0.069	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Carbazole	<0.18		0.18	0.090	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
4-Chloroaniline	<0.73		0.73	0.17	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2-Chloronaphthalene	<0.18		0.18	0.040	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2-Chlorophenol	<0.18		0.18	0.062	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Chrysene	0.38		0.036	0.0099	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Dibenz(a,h)anthracene	0.072	F1 *3	0.036	0.0070	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Dibenzofuran	<0.18		0.18	0.042	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
1,3-Dichlorobenzene	<0.18		0.18	0.041	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
1,4-Dichlorobenzene	<0.18	F1	0.18	0.046	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.051	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2,4-Dichlorophenol	<0.36		0.36	0.086	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Di-n-butyl phthalate	<0.18		0.18	0.055	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
4,6-Dinitro-2-methylphenol	<0.73	F1	0.73	0.29	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2,4-Dinitrophenol	<0.73	F1	0.73	0.64	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2,4-Dinitrotoluene	<0.18	F1	0.18	0.057	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2,6-Dinitrotoluene	<0.18	F1	0.18	0.071	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Di-n-octyl phthalate	<0.18		0.18	0.059	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Fluoranthene	0.79	F1	0.036	0.0067	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Fluorene	0.057		0.036	0.0051	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Hexachlorobenzene	<0.073	F1	0.073	0.0084	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Hexachlorobutadiene	<0.18	F1	0.18	0.057	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Hexachlorocyclopentadiene	<0.73	F1 *-	0.73	0.21	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Hexachloroethane	<0.18	F1	0.18	0.055	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Indeno[1,2,3-cd]pyrene	0.30	F1 *3	0.036	0.0094	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Isophorone	<0.18		0.18	0.041	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2-Methylnaphthalene	0.015	J	0.073	0.0066	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2-Methylphenol	<0.18		0.18	0.058	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Naphthalene	0.023	J	0.036	0.0056	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2-Nitroaniline	<0.18	F1	0.18	0.049	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
3-Nitroaniline	<0.36	F1	0.36	0.11	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
4-Nitroaniline	<0.36	F1	0.36	0.15	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
Nitrobenzene	<0.036	F1	0.036	0.0090	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1
2-Nitrophenol	<0.36	F1	0.36	0.085	mg/Kg	☼	06/30/23 07:02	06/30/23 22:31	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B09 (0-4)**

**Lab Sample ID: 500-235648-1**

Date Collected: 06/22/23 10:05

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.73	F1	0.73	0.34	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
N-Nitrosodi-n-propylamine	<0.073		0.073	0.044	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
N-Nitrosodiphenylamine	<0.18		0.18	0.043	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.042	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
Pentachlorophenol	<0.73		0.73	0.58	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
<b>Phenanthrene</b>	<b>0.56</b>		0.036	0.0050	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
Phenol	<0.18		0.18	0.080	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
<b>Pyrene</b>	<b>0.75</b>		0.036	0.0072	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
1,2,4-Trichlorobenzene	<0.18	F1	0.18	0.039	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	✳	06/30/23 07:02	06/30/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		43 - 145				06/30/23 07:02	06/30/23 22:31	1
2-Fluorophenol (Surr)	78		31 - 166				06/30/23 07:02	06/30/23 22:31	1
Nitrobenzene-d5 (Surr)	44		37 - 147				06/30/23 07:02	06/30/23 22:31	1
Phenol-d5 (Surr)	83		30 - 153				06/30/23 07:02	06/30/23 22:31	1
Terphenyl-d14 (Surr)	90		42 - 157				06/30/23 07:02	06/30/23 22:31	1
2,4,6-Tribromophenol (Surr)	53		31 - 143				06/30/23 07:02	06/30/23 22:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.55</b>	<b>J</b>	1.1	0.21	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Arsenic</b>	<b>5.6</b>		0.55	0.19	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Barium</b>	<b>50</b>		0.55	0.063	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Beryllium</b>	<b>0.54</b>		0.22	0.051	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Boron</b>	<b>4.8</b>		2.8	0.26	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Cadmium</b>	<b>0.53</b>	<b>B</b>	0.11	0.020	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Calcium</b>	<b>18000</b>	<b>B</b>	11	1.9	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Chromium</b>	<b>12</b>		0.55	0.27	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Cobalt</b>	<b>6.6</b>		0.28	0.072	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Copper</b>	<b>18</b>		0.55	0.15	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Iron</b>	<b>13000</b>		11	5.7	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Lead</b>	<b>110</b>		0.28	0.13	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Magnesium</b>	<b>11000</b>		5.5	2.7	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Manganese</b>	<b>370</b>		0.55	0.080	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Nickel</b>	<b>16</b>		0.55	0.16	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Potassium</b>	<b>1000</b>		28	9.8	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Selenium</b>	<b>0.32</b>	<b>J</b>	0.55	0.32	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Silver</b>	<b>0.24</b>	<b>J</b>	0.28	0.071	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Sodium</b>	<b>230</b>		55	8.2	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
Thallium	<0.55		0.55	0.28	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Vanadium</b>	<b>17</b>		0.28	0.065	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1
<b>Zinc</b>	<b>75</b>		1.1	0.48	mg/Kg	✳	06/23/23 14:58	06/26/23 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.31</b>	<b>J</b>	0.50	0.050	mg/L		06/29/23 16:47	06/30/23 13:27	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/29/23 16:47	06/30/23 13:27	1
<b>Boron</b>	<b>0.16</b>	<b>J B</b>	0.50	0.050	mg/L		06/29/23 16:47	06/30/23 13:27	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B09 (0-4)**

**Lab Sample ID: 500-235648-1**

Date Collected: 06/22/23 10:05

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cadmium</b>	<b>0.0034</b>	<b>J</b>	0.0050	0.0020	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
Chromium	<0.025		0.025	0.010	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
Cobalt	<0.025		0.025	0.010	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
Iron	<0.40		0.40	0.20	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
<b>Manganese</b>	<b>0.49</b>		0.025	0.010	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
<b>Nickel</b>	<b>0.043</b>		0.025	0.010	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
Selenium	<0.050		0.050	0.020	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
Silver	<0.025		0.025	0.010	mg/L	-	06/29/23 16:47	06/30/23 13:27	1
<b>Zinc</b>	<b>0.041</b>	<b>J</b>	0.50	0.020	mg/L	-	06/29/23 16:47	06/30/23 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.27</b>		0.025	0.010	mg/L	-	06/29/23 16:48	06/30/23 15:00	1

**Method: SW846 6020B - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L	-	06/29/23 16:47	07/03/23 23:45	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	06/29/23 16:47	07/03/23 23:45	1

**Method: SW846 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L	-	06/30/23 11:45	07/03/23 09:04	1

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.041</b>		0.017	0.0089	mg/Kg	☆	07/03/23 12:55	07/05/23 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>7.4</b>		0.2	0.2	SU	-		06/23/23 19:58	1

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B08 (0-4)**

**Lab Sample ID: 500-235648-2**

**Date Collected: 06/22/23 10:15**

**Matrix: Solid**

**Date Received: 06/22/23 17:00**

**Percent Solids: 92.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.021		0.021	0.0090	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Benzene	<0.0021		0.0021	0.00053	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Bromodichloromethane	<0.0021		0.0021	0.00042	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Bromoform	<0.0021		0.0021	0.00060	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Bromomethane	<0.0052		0.0052	0.0020	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
2-Butanone (MEK)	<0.0052		0.0052	0.0023	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Carbon disulfide	<0.0052	+	0.0052	0.0011	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Carbon tetrachloride	<0.0021	+	0.0021	0.00060	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Chlorobenzene	<0.0021		0.0021	0.00076	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Chloroethane	<0.0052		0.0052	0.0015	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Chloroform	<0.0021		0.0021	0.00072	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Chloromethane	<0.0052	+	0.0052	0.0021	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
cis-1,2-Dichloroethene	<0.0021		0.0021	0.00058	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
cis-1,3-Dichloropropene	<0.0021		0.0021	0.00062	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Dibromochloromethane	<0.0021		0.0021	0.00068	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,1-Dichloroethane	<0.0021		0.0021	0.00071	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,2-Dichloroethane	<0.0052		0.0052	0.0016	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,1-Dichloroethene	<0.0021	+	0.0021	0.00071	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,2-Dichloropropane	<0.0021		0.0021	0.00053	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,3-Dichloropropene, Total	<0.0021		0.0021	0.00073	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Ethylbenzene	<0.0021		0.0021	0.00099	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
2-Hexanone	<0.0052		0.0052	0.0016	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Methylene Chloride	<0.0052	+	0.0052	0.0020	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
4-Methyl-2-pentanone (MIBK)	<0.0052		0.0052	0.0015	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Methyl tert-butyl ether	<0.0021		0.0021	0.00061	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Styrene	<0.0021		0.0021	0.00062	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,1,2,2-Tetrachloroethane	<0.0021		0.0021	0.00066	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Tetrachloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Toluene	<0.0021		0.0021	0.00052	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
trans-1,2-Dichloroethene	<0.0021	+	0.0021	0.00092	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
trans-1,3-Dichloropropene	<0.0021		0.0021	0.00073	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,1,1-Trichloroethane	<0.0021		0.0021	0.00069	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
1,1,2-Trichloroethane	<0.0021		0.0021	0.00089	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Trichloroethene	<0.0021		0.0021	0.00070	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Vinyl acetate	<0.0052		0.0052	0.0018	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Vinyl chloride	<0.0021		0.0021	0.00092	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1
Xylenes, Total	<0.0041		0.0041	0.00066	mg/Kg	☼	06/23/23 19:25	06/27/23 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	06/23/23 19:25	06/27/23 14:18	1
Dibromofluoromethane	102		75 - 126	06/23/23 19:25	06/27/23 14:18	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 134	06/23/23 19:25	06/27/23 14:18	1
Toluene-d8 (Surr)	91		75 - 124	06/23/23 19:25	06/27/23 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.24		0.036	0.0064	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Acenaphthylene	0.0084	J	0.036	0.0047	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Anthracene	0.34		0.036	0.0060	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Benzo[a]anthracene	0.94		0.036	0.0048	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B08 (0-4)**

**Lab Sample ID: 500-235648-2**

Date Collected: 06/22/23 10:15

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1.0		0.036	0.0069	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Benzo[b]fluoranthene	1.1		0.036	0.0077	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Benzo[g,h,i]perylene	0.54		0.036	0.012	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Benzo[k]fluoranthene	0.40		0.036	0.011	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.036	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.054	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Bis(2-ethylhexyl) phthalate	0.16	J	0.18	0.065	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Butyl benzyl phthalate	<0.18		0.18	0.068	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Carbazole	0.20		0.18	0.089	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
4-Chloroaniline	<0.72		0.72	0.17	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
4-Chloro-3-methylphenol	<0.36		0.36	0.12	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2-Chloronaphthalene	<0.18		0.18	0.039	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2-Chlorophenol	<0.18		0.18	0.061	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.042	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Chrysene	0.98		0.036	0.0098	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Dibenz(a,h)anthracene	0.15		0.036	0.0069	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Dibenzofuran	0.10	J	0.18	0.042	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
1,2-Dichlorobenzene	<0.18		0.18	0.043	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
1,3-Dichlorobenzene	<0.18		0.18	0.040	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
1,4-Dichlorobenzene	<0.18		0.18	0.046	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.050	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2,4-Dichlorophenol	<0.36		0.36	0.085	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Diethyl phthalate	<0.18		0.18	0.061	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2,4-Dimethylphenol	<0.36		0.36	0.14	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Dimethyl phthalate	<0.18		0.18	0.047	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Di-n-butyl phthalate	<0.18		0.18	0.054	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.29	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2,4-Dinitrophenol	<0.72		0.72	0.63	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2,4-Dinitrotoluene	<0.18		0.18	0.057	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2,6-Dinitrotoluene	<0.18		0.18	0.070	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Di-n-octyl phthalate	<0.18		0.18	0.058	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Fluoranthene	1.9		0.036	0.0066	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Fluorene	0.17		0.036	0.0050	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Hexachlorobenzene	<0.072		0.072	0.0083	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Hexachlorobutadiene	<0.18		0.18	0.056	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Hexachlorocyclopentadiene	<0.72	*	0.72	0.21	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Hexachloroethane	<0.18		0.18	0.054	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Indeno[1,2,3-cd]pyrene	0.78		0.036	0.0093	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Isophorone	<0.18		0.18	0.040	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2-Methylnaphthalene	0.045	J	0.072	0.0066	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2-Methylphenol	<0.18		0.18	0.057	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
3 & 4 Methylphenol	<0.18		0.18	0.060	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Naphthalene	0.19		0.036	0.0055	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2-Nitroaniline	<0.18		0.18	0.048	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
3-Nitroaniline	<0.36		0.36	0.11	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
4-Nitroaniline	<0.36		0.36	0.15	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
Nitrobenzene	<0.036		0.036	0.0089	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1
2-Nitrophenol	<0.36		0.36	0.084	mg/Kg	☼	06/30/23 07:02	06/30/23 18:03	1

Euofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B08 (0-4)**

**Lab Sample ID: 500-235648-2**

Date Collected: 06/22/23 10:15

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.34	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.044	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
N-Nitrosodiphenylamine	<0.18		0.18	0.042	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.041	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
Pentachlorophenol	<0.72		0.72	0.57	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
<b>Phenanthrene</b>	<b>1.3</b>		0.036	0.0050	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
Phenol	<0.18		0.18	0.079	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
<b>Pyrene</b>	<b>1.8</b>		0.036	0.0071	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.039	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
2,4,5-Trichlorophenol	<0.36		0.36	0.082	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
2,4,6-Trichlorophenol	<0.36		0.36	0.12	mg/Kg	☆	06/30/23 07:02	06/30/23 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		43 - 145				06/30/23 07:02	06/30/23 18:03	1
2-Fluorophenol (Surr)	75		31 - 166				06/30/23 07:02	06/30/23 18:03	1
Nitrobenzene-d5 (Surr)	75		37 - 147				06/30/23 07:02	06/30/23 18:03	1
Phenol-d5 (Surr)	74		30 - 153				06/30/23 07:02	06/30/23 18:03	1
Terphenyl-d14 (Surr)	80		42 - 157				06/30/23 07:02	06/30/23 18:03	1
2,4,6-Tribromophenol (Surr)	58		31 - 143				06/30/23 07:02	06/30/23 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.38</b>	<b>J</b>	1.1	0.20	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Arsenic</b>	<b>5.2</b>		0.53	0.18	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Barium</b>	<b>46</b>		0.53	0.060	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Beryllium</b>	<b>0.43</b>		0.21	0.049	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Boron</b>	<b>3.2</b>		2.6	0.25	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Cadmium</b>	<b>0.36</b>	<b>B</b>	0.11	0.019	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Calcium</b>	<b>9200</b>	<b>B</b>	11	1.8	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Chromium</b>	<b>9.9</b>		0.53	0.26	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Cobalt</b>	<b>5.6</b>		0.26	0.069	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Copper</b>	<b>16</b>		0.53	0.15	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Iron</b>	<b>9800</b>		11	5.5	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Lead</b>	<b>89</b>		0.26	0.12	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Magnesium</b>	<b>5200</b>		5.3	2.6	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Manganese</b>	<b>360</b>		0.53	0.076	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Nickel</b>	<b>12</b>		0.53	0.15	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Potassium</b>	<b>680</b>		26	9.3	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
Selenium	<0.53		0.53	0.31	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Silver</b>	<b>0.15</b>	<b>J</b>	0.26	0.068	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Sodium</b>	<b>67</b>		53	7.8	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Thallium</b>	<b>0.34</b>	<b>J</b>	0.53	0.26	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Vanadium</b>	<b>16</b>		0.26	0.062	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1
<b>Zinc</b>	<b>66</b>		1.1	0.46	mg/Kg	☆	06/23/23 14:58	06/26/23 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.29</b>	<b>J</b>	0.50	0.050	mg/L		06/29/23 16:47	06/30/23 13:37	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		06/29/23 16:47	06/30/23 13:37	1
<b>Boron</b>	<b>0.18</b>	<b>J B</b>	0.50	0.050	mg/L		06/29/23 16:47	06/30/23 13:37	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B08 (0-4)**

**Lab Sample ID: 500-235648-2**

Date Collected: 06/22/23 10:15

Matrix: Solid

Date Received: 06/22/23 17:00

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cadmium</b>	<b>0.0022</b>	<b>J</b>	0.0050	0.0020	mg/L		06/29/23 16:47	06/30/23 13:37	1
Chromium	<0.025		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 13:37	1
Cobalt	<0.025		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 13:37	1
Iron	<0.40		0.40	0.20	mg/L		06/29/23 16:47	06/30/23 13:37	1
<b>Lead</b>	<b>0.012</b>		0.0075	0.0075	mg/L		06/29/23 16:47	06/30/23 13:37	1
<b>Manganese</b>	<b>1.1</b>		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 13:37	1
Nickel	<0.025		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 13:37	1
Selenium	<0.050		0.050	0.020	mg/L		06/29/23 16:47	06/30/23 13:37	1
Silver	<0.025		0.025	0.010	mg/L		06/29/23 16:47	06/30/23 13:37	1
<b>Zinc</b>	<b>0.061</b>	<b>J</b>	0.50	0.020	mg/L		06/29/23 16:47	06/30/23 13:37	1

**Method: SW846 6010B - SPLP Metals - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>0.041</b>		0.0075	0.0075	mg/L		06/29/23 16:48	06/30/23 15:04	1
<b>Manganese</b>	<b>0.087</b>		0.025	0.010	mg/L		06/29/23 16:48	06/30/23 15:04	1

**Method: SW846 6020B - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		06/29/23 16:47	07/03/23 23:47	1
Thallium	<0.0020		0.0020	0.0020	mg/L		06/29/23 16:47	07/03/23 23:47	1

**Method: SW846 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		06/30/23 11:45	07/03/23 09:06	1

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.052</b>		0.017	0.0091	mg/Kg	☼	07/03/23 12:55	07/05/23 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>7.2</b>		0.2	0.2	SU			06/23/23 20:00	1



# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## GC/MS VOA

### Prep Batch: 720335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	5035	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	5035	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	5035	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	5035	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	5035	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	5035	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	5035	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	5035	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	5035	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	5035	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	5035	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	5035	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	5035	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	5035	

### Analysis Batch: 720608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	8260B	720335
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	8260B	720335
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	8260B	720335
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	8260B	720335
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	8260B	720335
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	8260B	720335
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	8260B	720335
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	8260B	720335
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	8260B	720335
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	8260B	720335
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	8260B	720335
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	8260B	720335
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	8260B	720335
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	8260B	720335
MB 500-720608/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-720608/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 500-720608/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 721184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	3541	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	3541	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	3541	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	3541	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	3541	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	3541	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	3541	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	3541	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	3541	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	3541	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	3541	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	3541	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 721184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	3541	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	3541	
MB 500-721184/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-721184/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-235648-1 MS	3603-03-B09 (0-4)	Total/NA	Solid	3541	
500-235648-1 MSD	3603-03-B09 (0-4)	Total/NA	Solid	3541	

### Analysis Batch: 721203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	8270D	721184
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	8270D	721184
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	8270D	721184
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	8270D	721184
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	8270D	721184
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	8270D	721184
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	8270D	721184
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	8270D	721184
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	8270D	721184
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	8270D	721184
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	8270D	721184
MB 500-721184/1-A	Method Blank	Total/NA	Solid	8270D	721184
LCS 500-721184/2-A	Lab Control Sample	Total/NA	Solid	8270D	721184
500-235648-1 MS	3603-03-B09 (0-4)	Total/NA	Solid	8270D	721184
500-235648-1 MSD	3603-03-B09 (0-4)	Total/NA	Solid	8270D	721184

### Analysis Batch: 721493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	8270D	721184
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	8270D	721184
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	8270D	721184

## Metals

### Prep Batch: 720229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	3050B	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	3050B	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	3050B	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	3050B	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	3050B	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	3050B	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	3050B	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	3050B	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	3050B	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	3050B	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	3050B	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	3050B	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	3050B	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	3050B	
MB 500-720229/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-720229/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Prep Batch: 720229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-10 MS	3603-03-B03 (0-4)	Total/NA	Solid	3050B	
500-235648-10 MSD	3603-03-B03 (0-4)	Total/NA	Solid	3050B	
500-235648-10 DU	3603-03-B03 (0-4)	Total/NA	Solid	3050B	

### Analysis Batch: 720623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	6010B	720229
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	6010B	720229
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	6010B	720229
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	6010B	720229
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	6010B	720229
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	6010B	720229
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	6010B	720229
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	6010B	720229
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	6010B	720229
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	6010B	720229
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	6010B	720229
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	6010B	720229
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	6010B	720229
MB 500-720229/1-A	Method Blank	Total/NA	Solid	6010B	720229
LCS 500-720229/2-A	Lab Control Sample	Total/NA	Solid	6010B	720229
500-235648-10 MS	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229
500-235648-10 MSD	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229
500-235648-10 DU	3603-03-B03 (0-4)	Total/NA	Solid	6010B	720229

### Analysis Batch: 720832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	6010B	720229
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	6010B	720229
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	6010B	720229
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	6010B	720229
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	6010B	720229

### Leach Batch: 720879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	1311	
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	1311	
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	1311	
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	1311	
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	1311	
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	1311	
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	1311	
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	1311	
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	1311	
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	1311	
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	1311	
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	1311	
LB 500-720879/1-D	Method Blank	TCLP	Solid	1311	
LB 500-720879/1-F	Method Blank	TCLP	Solid	1311	
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	1311	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Leach Batch: 720879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	1311	

### Leach Batch: 720882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	1311	
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	1311	
LB 500-720882/1-B	Method Blank	TCLP	Solid	1311	
LB 500-720882/1-D	Method Blank	TCLP	Solid	1311	

### Leach Batch: 720884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	SPLP East	Solid	1312	
500-235648-2	3603-03-B08 (0-4)	SPLP East	Solid	1312	
500-235648-3	3603-03-B10 (0-2)	SPLP East	Solid	1312	
500-235648-4	3603-03-B04 (0-4)	SPLP East	Solid	1312	
500-235648-5	3603-03-B04 (0-4) DUP	SPLP East	Solid	1312	
500-235648-6	3603-03-B05 (0-4)	SPLP East	Solid	1312	
500-235648-7	3603-03-B06 (0-3)	SPLP East	Solid	1312	
500-235648-8	3603-03-B07 (0-4)	SPLP East	Solid	1312	
500-235648-9	3603-03-B02 (0-4)	SPLP East	Solid	1312	
500-235648-10	3603-03-B03 (0-4)	SPLP East	Solid	1312	
500-235648-11	3603-01-B01 (0-2)	SPLP East	Solid	1312	
500-235648-12	3603-01-B02 (0-2)	SPLP East	Solid	1312	
500-235648-13	3603-01-B03 (0-2)	SPLP East	Solid	1312	
500-235648-14	3603-03-B01 (0-2)	SPLP East	Solid	1312	
LB 500-720884/2-B	Method Blank	SPLP East	Solid	1312	
500-235648-14 MS	3603-03-B01 (0-2)	SPLP East	Solid	1312	
500-235648-14 DU	3603-03-B01 (0-2)	SPLP East	Solid	1312	

### Prep Batch: 721156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	3010A	720879
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	3010A	720879
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	3010A	720879
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	3010A	720879
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	3010A	720879
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	3010A	720879
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	3010A	720879
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	3010A	720879
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	3010A	720879
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	3010A	720879
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	3010A	720879
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	3010A	720879
LB 500-720879/1-D	Method Blank	TCLP	Solid	3010A	720879
LCS 500-721156/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	3010A	720879
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	3010A	720879

### Prep Batch: 721160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	3010A	720882

Eurolins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Prep Batch: 721160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	3010A	720882
LB 500-720882/1-B	Method Blank	TCLP	Solid	3010A	720882
LCS 500-721160/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 721161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	SPLP East	Solid	3010A	720884
500-235648-2	3603-03-B08 (0-4)	SPLP East	Solid	3010A	720884
500-235648-3	3603-03-B10 (0-2)	SPLP East	Solid	3010A	720884
500-235648-4	3603-03-B04 (0-4)	SPLP East	Solid	3010A	720884
500-235648-5	3603-03-B04 (0-4) DUP	SPLP East	Solid	3010A	720884
500-235648-6	3603-03-B05 (0-4)	SPLP East	Solid	3010A	720884
500-235648-7	3603-03-B06 (0-3)	SPLP East	Solid	3010A	720884
500-235648-8	3603-03-B07 (0-4)	SPLP East	Solid	3010A	720884
500-235648-9	3603-03-B02 (0-4)	SPLP East	Solid	3010A	720884
500-235648-10	3603-03-B03 (0-4)	SPLP East	Solid	3010A	720884
500-235648-11	3603-01-B01 (0-2)	SPLP East	Solid	3010A	720884
500-235648-12	3603-01-B02 (0-2)	SPLP East	Solid	3010A	720884
500-235648-13	3603-01-B03 (0-2)	SPLP East	Solid	3010A	720884
500-235648-14	3603-03-B01 (0-2)	SPLP East	Solid	3010A	720884
LB 500-720884/2-B	Method Blank	SPLP East	Solid	3010A	720884
LCS 500-721161/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-235648-14 MS	3603-03-B01 (0-2)	SPLP East	Solid	3010A	720884
500-235648-14 DU	3603-03-B01 (0-2)	SPLP East	Solid	3010A	720884

### Prep Batch: 721293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	7470A	720879
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	7470A	720879
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	7470A	720879
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	7470A	720879
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	7470A	720879
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	7470A	720879
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	7470A	720879
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	7470A	720879
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	7470A	720879
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	7470A	720879
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	7470A	720879
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	7470A	720879
LB 500-720879/1-F	Method Blank	TCLP	Solid	7470A	720879
MB 500-721293/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-721293/14-A	Lab Control Sample	Total/NA	Solid	7470A	
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	7470A	720879
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	7470A	720879

### Prep Batch: 721299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	7470A	720882
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	7470A	720882
LB 500-720882/1-D	Method Blank	TCLP	Solid	7470A	720882
MB 500-721299/12-A	Method Blank	Total/NA	Solid	7470A	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Prep Batch: 721299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-721299/14-A	Lab Control Sample	Total/NA	Solid	7470A	

### Analysis Batch: 721330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	6010B	721156
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	6010B	721156
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	6010B	721156
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	6010B	721156
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	6010B	721156
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	6010B	721156
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	6010B	721156
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	6010B	721156
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	6010B	721156
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	6010B	721156
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	6010B	721156
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	6010B	721156
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	6010B	721160
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	6010B	721160
LB 500-720879/1-D	Method Blank	TCLP	Solid	6010B	721156
LB 500-720882/1-B	Method Blank	TCLP	Solid	6010B	721160
LCS 500-721156/2-A	Lab Control Sample	Total/NA	Solid	6010B	721156
LCS 500-721160/2-A	Lab Control Sample	Total/NA	Solid	6010B	721160
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	6010B	721156
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	6010B	721156

### Analysis Batch: 721331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 500-721331/16	Lab Control Sample	Total/NA	Solid	6010B	

### Prep Batch: 721470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	7471B	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	7471B	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	7471B	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	7471B	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	7471B	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	7471B	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	7471B	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	7471B	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	7471B	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	7471B	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	7471B	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	7471B	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	7471B	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	7471B	
MB 500-721470/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-721470/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-235648-9 MS	3603-03-B02 (0-4)	Total/NA	Solid	7471B	
500-235648-9 MSD	3603-03-B02 (0-4)	Total/NA	Solid	7471B	
500-235648-9 DU	3603-03-B02 (0-4)	Total/NA	Solid	7471B	

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals

### Analysis Batch: 721479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	SPLP East	Solid	6010B	721161
500-235648-2	3603-03-B08 (0-4)	SPLP East	Solid	6010B	721161
500-235648-3	3603-03-B10 (0-2)	SPLP East	Solid	6010B	721161
500-235648-4	3603-03-B04 (0-4)	SPLP East	Solid	6010B	721161
500-235648-5	3603-03-B04 (0-4) DUP	SPLP East	Solid	6010B	721161
500-235648-6	3603-03-B05 (0-4)	SPLP East	Solid	6010B	721161
500-235648-7	3603-03-B06 (0-3)	SPLP East	Solid	6010B	721161
500-235648-8	3603-03-B07 (0-4)	SPLP East	Solid	6010B	721161
500-235648-9	3603-03-B02 (0-4)	SPLP East	Solid	6010B	721161
500-235648-10	3603-03-B03 (0-4)	SPLP East	Solid	6010B	721161
500-235648-11	3603-01-B01 (0-2)	SPLP East	Solid	6010B	721161
500-235648-12	3603-01-B02 (0-2)	SPLP East	Solid	6010B	721161
500-235648-13	3603-01-B03 (0-2)	SPLP East	Solid	6010B	721161
500-235648-14	3603-03-B01 (0-2)	SPLP East	Solid	6010B	721161
LB 500-720884/2-B	Method Blank	SPLP East	Solid	6010B	721161
LCS 500-721161/2-A	Lab Control Sample	Total/NA	Solid	6010B	721161
500-235648-14 MS	3603-03-B01 (0-2)	SPLP East	Solid	6010B	721161
500-235648-14 DU	3603-03-B01 (0-2)	SPLP East	Solid	6010B	721161

### Analysis Batch: 721485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	7470A	721293
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	7470A	721293
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	7470A	721293
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	7470A	721293
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	7470A	721293
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	7470A	721293
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	7470A	721293
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	7470A	721293
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	7470A	721293
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	7470A	721293
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	7470A	721293
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	7470A	721293
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	7470A	721299
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	7470A	721299
LB 500-720879/1-F	Method Blank	TCLP	Solid	7470A	721293
LB 500-720882/1-D	Method Blank	TCLP	Solid	7470A	721299
MB 500-721293/12-A	Method Blank	Total/NA	Solid	7470A	721293
MB 500-721299/12-A	Method Blank	Total/NA	Solid	7470A	721299
LCS 500-721293/14-A	Lab Control Sample	Total/NA	Solid	7470A	721293
LCS 500-721299/14-A	Lab Control Sample	Total/NA	Solid	7470A	721299
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	7470A	721293
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	7470A	721293

### Analysis Batch: 721681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	TCLP	Solid	6020B	721156
500-235648-2	3603-03-B08 (0-4)	TCLP	Solid	6020B	721156
500-235648-3	3603-03-B10 (0-2)	TCLP	Solid	6020B	721156
500-235648-4	3603-03-B04 (0-4)	TCLP	Solid	6020B	721156
500-235648-5	3603-03-B04 (0-4) DUP	TCLP	Solid	6020B	721156

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## Metals (Continued)

### Analysis Batch: 721681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-6	3603-03-B05 (0-4)	TCLP	Solid	6020B	721156
500-235648-7	3603-03-B06 (0-3)	TCLP	Solid	6020B	721156
500-235648-8	3603-03-B07 (0-4)	TCLP	Solid	6020B	721156
500-235648-9	3603-03-B02 (0-4)	TCLP	Solid	6020B	721156
500-235648-10	3603-03-B03 (0-4)	TCLP	Solid	6020B	721156
500-235648-11	3603-01-B01 (0-2)	TCLP	Solid	6020B	721156
500-235648-12	3603-01-B02 (0-2)	TCLP	Solid	6020B	721156
500-235648-13	3603-01-B03 (0-2)	TCLP	Solid	6020B	721160
500-235648-14	3603-03-B01 (0-2)	TCLP	Solid	6020B	721160
LB 500-720879/1-D	Method Blank	TCLP	Solid	6020B	721156
LB 500-720882/1-B	Method Blank	TCLP	Solid	6020B	721160
LCS 500-721156/2-A	Lab Control Sample	Total/NA	Solid	6020B	721156
LCS 500-721160/2-A	Lab Control Sample	Total/NA	Solid	6020B	721160
500-235648-12 MS	3603-01-B02 (0-2)	TCLP	Solid	6020B	721156
500-235648-12 DU	3603-01-B02 (0-2)	TCLP	Solid	6020B	721156

### Analysis Batch: 721731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	7471B	721470
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	7471B	721470
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	7471B	721470
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	7471B	721470
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	7471B	721470
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	7471B	721470
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	7471B	721470
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	7471B	721470
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	7471B	721470
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	7471B	721470
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	7471B	721470
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	7471B	721470
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	7471B	721470
MB 500-721470/12-A	Method Blank	Total/NA	Solid	7471B	721470
LCS 500-721470/13-A	Lab Control Sample	Total/NA	Solid	7471B	721470
500-235648-9 MS	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470
500-235648-9 MSD	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470
500-235648-9 DU	3603-03-B02 (0-4)	Total/NA	Solid	7471B	721470

## General Chemistry

### Analysis Batch: 720334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	9045D	
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	9045D	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	9045D	
LCS 500-720334/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-720334/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

### Analysis Batch: 720409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-1	3603-03-B09 (0-4)	Total/NA	Solid	Moisture	

Eurofins Chicago



# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

## General Chemistry (Continued)

### Analysis Batch: 720409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-2	3603-03-B08 (0-4)	Total/NA	Solid	Moisture	
500-235648-3	3603-03-B10 (0-2)	Total/NA	Solid	Moisture	
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	Moisture	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	Moisture	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	Moisture	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	Moisture	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	Moisture	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	Moisture	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	Moisture	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	Moisture	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	Moisture	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	Moisture	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	Moisture	

### Analysis Batch: 720738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235648-4	3603-03-B04 (0-4)	Total/NA	Solid	9045D	
500-235648-5	3603-03-B04 (0-4) DUP	Total/NA	Solid	9045D	
500-235648-6	3603-03-B05 (0-4)	Total/NA	Solid	9045D	
500-235648-7	3603-03-B06 (0-3)	Total/NA	Solid	9045D	
500-235648-8	3603-03-B07 (0-4)	Total/NA	Solid	9045D	
500-235648-9	3603-03-B02 (0-4)	Total/NA	Solid	9045D	
500-235648-10	3603-03-B03 (0-4)	Total/NA	Solid	9045D	
500-235648-11	3603-01-B01 (0-2)	Total/NA	Solid	9045D	
500-235648-12	3603-01-B02 (0-2)	Total/NA	Solid	9045D	
500-235648-13	3603-01-B03 (0-2)	Total/NA	Solid	9045D	
500-235648-14	3603-03-B01 (0-2)	Total/NA	Solid	9045D	
LCS 500-720738/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-720738/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-235648-4 DU	3603-03-B04 (0-4)	Total/NA	Solid	9045D	

# Surrogate Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-235648-1	3603-03-B09 (0-4)	89	101	94	93
500-235648-2	3603-03-B08 (0-4)	92	102	95	91
500-235648-3	3603-03-B10 (0-2)	92	106	96	91
500-235648-4	3603-03-B04 (0-4)	91	103	98	93
500-235648-5	3603-03-B04 (0-4) DUP	91	98	92	93
500-235648-6	3603-03-B05 (0-4)	88	106	94	88
500-235648-7	3603-03-B06 (0-3)	91	97	92	92
500-235648-8	3603-03-B07 (0-4)	91	99	95	93
500-235648-9	3603-03-B02 (0-4)	91	104	97	92
500-235648-10	3603-03-B03 (0-4)	92	103	95	92
500-235648-11	3603-01-B01 (0-2)	91	107	100	91
500-235648-12	3603-01-B02 (0-2)	96	99	92	96
500-235648-13	3603-01-B03 (0-2)	90	103	94	92
500-235648-14	3603-03-B01 (0-2)	87	107	98	88
LCS 500-720608/3	Lab Control Sample	88	92	84	93
LCS 500-720608/4	Lab Control Sample Dup	85	95	84	93
MB 500-720608/6	Method Blank	90	100	91	91

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-235648-1	3603-03-B09 (0-4)	82	78	44	83	90	53
500-235648-1 MS	3603-03-B09 (0-4)	68	70	48	72	71	42
500-235648-1 MSD	3603-03-B09 (0-4)	70	66	48	70	74	43
500-235648-2	3603-03-B08 (0-4)	77	75	75	74	80	58
500-235648-3	3603-03-B10 (0-2)	62	62	59	64	58	50
500-235648-4	3603-03-B04 (0-4)	73	74	72	73	79	49
500-235648-5	3603-03-B04 (0-4) DUP	84	87	88	88	95	56
500-235648-6	3603-03-B05 (0-4)	65	64	63	65	72	49
500-235648-7	3603-03-B06 (0-3)	70	67	55	70	74	51
500-235648-8	3603-03-B07 (0-4)	67	63	66	65	72	48
500-235648-9	3603-03-B02 (0-4)	80	76	74	77	86	58
500-235648-10	3603-03-B03 (0-4)	63	61	61	61	69	43
500-235648-11	3603-01-B01 (0-2)	61	61	56	68	61	54
500-235648-12	3603-01-B02 (0-2)	75	70	67	79	82	75
500-235648-13	3603-01-B03 (0-2)	66	63	63	67	74	45
500-235648-14	3603-03-B01 (0-2)	64	61	62	63	73	45
LCS 500-721184/2-A	Lab Control Sample	90	91	89	91	94	69
MB 500-721184/1-A	Method Blank	82	81	80	80	86	50

#### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

Eurofins Chicago

# Lab Chronicle

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B09 (0-4)**  
Date Collected: 06/22/23 10:05  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-1**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			720884	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
SPLP East	Prep	3010A			721161	RN	EET CHI	06/29/23 16:48 - 06/29/23 17:18 <sup>1</sup>
SPLP East	Analysis	6010B		1	721479	FXG	EET CHI	06/30/23 15:00
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721156	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6010B		1	721330	OAJ	EET CHI	06/30/23 13:27
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721156	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6020B		1	721681	FXG	EET CHI	07/03/23 23:45
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	7470A			721293	MJG	EET CHI	06/30/23 11:45 - 06/30/23 13:45 <sup>1</sup>
TCLP	Analysis	7470A		1	721485	MJG	EET CHI	07/03/23 09:04
Total/NA	Analysis	9045D		1	720334	LWN	EET CHI	06/23/23 19:58
Total/NA	Analysis	Moisture		1	720409	LWN	EET CHI	06/26/23 10:04

**Client Sample ID: 3603-03-B09 (0-4)**  
Date Collected: 06/22/23 10:05  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-1**  
Matrix: Solid  
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			720335	WRE	EET CHI	06/23/23 19:25
Total/NA	Analysis	8260B		1	720608	W1T	EET CHI	06/27/23 13:52
Total/NA	Prep	3541			721184	GM	EET CHI	06/30/23 07:02 - 06/30/23 11:49 <sup>1</sup>
Total/NA	Analysis	8270D		1	721203	SS	EET CHI	06/30/23 22:31
Total/NA	Prep	3050B			720229	RN	EET CHI	06/23/23 14:58 - 06/23/23 15:28 <sup>1</sup>
Total/NA	Analysis	6010B		1	720623	CMS	EET CHI	06/26/23 22:55
Total/NA	Prep	7471B			721470	MJG	EET CHI	07/03/23 12:55
Total/NA	Analysis	7471B		1	721731	MJG	EET CHI	07/05/23 14:04

**Client Sample ID: 3603-03-B08 (0-4)**  
Date Collected: 06/22/23 10:15  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-2**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			720884	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
SPLP East	Prep	3010A			721161	RN	EET CHI	06/29/23 16:48 - 06/29/23 17:18 <sup>1</sup>
SPLP East	Analysis	6010B		1	721479	FXG	EET CHI	06/30/23 15:04
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721156	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6010B		1	721330	OAJ	EET CHI	06/30/23 13:37
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721156	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6020B		1	721681	FXG	EET CHI	07/03/23 23:47
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	7470A			721293	MJG	EET CHI	06/30/23 11:45 - 06/30/23 13:45 <sup>1</sup>
TCLP	Analysis	7470A		1	721485	MJG	EET CHI	07/03/23 09:06

Eurofins Chicago

# Lab Chronicle

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-235648-1

**Client Sample ID: 3603-03-B08 (0-4)**  
Date Collected: 06/22/23 10:15  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-2**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	720334	LWN	EET CHI	06/23/23 20:00
Total/NA	Analysis	Moisture		1	720409	LWN	EET CHI	06/26/23 10:04

**Client Sample ID: 3603-03-B08 (0-4)**  
Date Collected: 06/22/23 10:15  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-2**  
Matrix: Solid  
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			720335	WRE	EET CHI	06/23/23 19:25
Total/NA	Analysis	8260B		1	720608	W1T	EET CHI	06/27/23 14:18
Total/NA	Prep	3541			721184	GM	EET CHI	06/30/23 07:02 - 06/30/23 11:49 <sup>1</sup>
Total/NA	Analysis	8270D		1	721203	SS	EET CHI	06/30/23 18:03
Total/NA	Prep	3050B			720229	RN	EET CHI	06/23/23 14:58 - 06/23/23 15:28 <sup>1</sup>
Total/NA	Analysis	6010B		1	720623	CMS	EET CHI	06/26/23 22:58
Total/NA	Prep	7471B			721470	MJG	EET CHI	07/03/23 12:55
Total/NA	Analysis	7471B		1	721731	MJG	EET CHI	07/05/23 14:06

**Client Sample ID: 3603-03-B10 (0-2)**  
Date Collected: 06/22/23 10:30  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-3**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			720884	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
SPLP East	Prep	3010A			721161	RN	EET CHI	06/29/23 16:48 - 06/29/23 17:18 <sup>1</sup>
SPLP East	Analysis	6010B		1	721479	FXG	EET CHI	06/30/23 15:07
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721156	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6010B		1	721330	OAJ	EET CHI	06/30/23 13:40
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	3010A			721156	RN	EET CHI	06/29/23 16:47 - 06/29/23 17:17 <sup>1</sup>
TCLP	Analysis	6020B		1	721681	FXG	EET CHI	07/03/23 23:49
TCLP	Leach	1311			720879	SS	EET CHI	06/28/23 12:17 - 06/29/23 04:17 <sup>1</sup>
TCLP	Prep	7470A			721293	MJG	EET CHI	06/30/23 11:45 - 06/30/23 13:45 <sup>1</sup>
TCLP	Analysis	7470A		1	721485	MJG	EET CHI	07/03/23 09:08
Total/NA	Analysis	9045D		1	720334	LWN	EET CHI	06/23/23 20:02
Total/NA	Analysis	Moisture		1	720409	LWN	EET CHI	06/26/23 10:04

**Client Sample ID: 3603-03-B10 (0-2)**  
Date Collected: 06/22/23 10:30  
Date Received: 06/22/23 17:00

**Lab Sample ID: 500-235648-3**  
Matrix: Solid  
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			720335	WRE	EET CHI	06/23/23 19:25
Total/NA	Analysis	8260B		1	720608	W1T	EET CHI	06/27/23 14:43

# Chain of Custody Record

667487



Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

500-235648 COC

TAL-8210

Client Contact		Project Manager <b>D. Tichout</b>		Site Contact <b>T. Trujnar</b>		Date <b>6-22-23</b>		
Company Name <b>WSP</b>		Tel/Email		Lab Contact		Carrier _____ of <b>2</b> COCs		
Address <b>30 N LaSalle</b>		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Sampler		For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>		
City/State/Zip <b>Chicago IL</b>								
Phone		TAT if different from Below _____		Filtered Sample (Y/N) Perform MS / MSD (Y/N) PH % Solids VOCs SVOCs Total Metals TCLP #		Job / SDG No <b>500-235648</b>		
Fax <input checked="" type="checkbox"/>		2 weeks						
Project Name <b>IDOT WSP11 W020-FA194</b>		<input type="checkbox"/> 1 week						
Site <b>31403035.020</b>		<input type="checkbox"/> 2 days						
P O #		<input type="checkbox"/> 1 day						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes	
1	3603-03-B09 (0-4)	6/22/23	1005	C	S	2	} green cooler	
2	3603-03-B08 (0-4)	6/22/23	1015	C	S	2		
3	3603-03-B10 (0-2)	6/22/23	1030	C	S	2		
4	3603-03-B04 (0-4)	6/22/23	1110	C	S	2		
5	3603-03-B04 (0-4) DUP	6/22/23	1110	C	S	2		
6	3603-03-B05 (0-4)	6/22/23	1145	C	S	2		
7	3603-03-B06 (0-3)	6/22/23	1200	C	S	2		
8	3603-03-B07 (0-4)	6/22/23	1220	C	S	2		
9	3603-03-B02 (0-4)	6/22/23	1300	C	S	2		
10	3603-03-B03 (0-4)	6/22/23	1315	C	S	2		
11	3603-01-B01 (0-2)	6/22/23	1350	C	S	2		} blue cooler
12	3603-01-B02 (0-2)	6/22/23	1405	C	S	2		
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. <b>*SPLP analysis based on TCLP results</b>								
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd _____		Therm ID No _____		
Relinquished by <b>[Signature]</b>		Company <b>WSP</b>		Date/Time <b>6/22/23 1700</b>		Received by _____		
Relinquished by _____		Company _____		Date/Time _____		Received by _____		
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <b>Stephanie Homandey</b>		
						Company <b>EETA</b> Date/Time <b>6/22/23 1700</b>		

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-235648-1

**Login Number: 235648**

**List Number: 1**

**Creator: James, Jeff A**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.5,4.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dean Tiebout  
WSP USA Inc.  
30 North LaSalle Street  
Chicago, Illinois 60602

Generated 9/14/2023 4:31:42 PM

## JOB DESCRIPTION

IDOT - 196-002-WO20 FAI 94

## JOB NUMBER

500-238387-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



Generated  
9/14/2023 4:31:42 PM

Authorized for release by  
Jim Knapp, Project Manager II  
[Jim.Knapp@et.eurofinsus.com](mailto:Jim.Knapp@et.eurofinsus.com)  
(630)758-0262



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Method Summary . . . . .	12
Sample Summary . . . . .	13
Client Sample Results . . . . .	14
Definitions . . . . .	42
QC Association . . . . .	43
Surrogate Summary . . . . .	49
QC Sample Results . . . . .	50
Chronicle . . . . .	60
Certification Summary . . . . .	67
Chain of Custody . . . . .	68
Receipt Checklists . . . . .	69



# Case Narrative

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## Job ID: 500-238387-1

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-238387-1

#### Receipt

The samples were received on 08/18/23 13:40. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3° C.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-729015 was outside the method criteria for the following analytes: 2,4-Dinitrophenol, 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-729015 was outside the method criteria for the following analytes: Indeno[1,2,3-cd]pyrene and Bis(2-ethylhexyl) phthalate. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Methods 8270D, 8270E: The continuing calibration verification (CCV) analyzed in batch 500-729020 was outside the method criteria for the following analyte: Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. (CCVIS 500-729020/2)

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-729261 was outside the method criteria for the following analytes: 4-Nitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-729261 was outside the method criteria for the following analytes: Bis(2-ethylhexyl) phthalate and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: 3603-02-B01 (0-1) (500-238387-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method 6010D: The initial low level calibration verification (ICVL) result for batch 730941 was above the 70-130% upper control limit for Copper (133%). All mid level CCV's and an MRL standard (at RL but not required) were within control limits. Sample results been reported as qualified data.

Method 6010D: The laboratory control sample (LCS) for preparation batch 500-729709 and 500-730039 and analytical batch 500-731386 recovered outside control limits for the following analyte: Selenium. This analyte was biased high in the LCS and was below the reporting limit(RL) in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

**Client Sample ID: 3603-03-B12 (0-4)**

**Lab Sample ID: 500-238387-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.018	J	0.035	0.0073	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]anthracene	0.087		0.035	0.0076	mg/Kg	1	✳	8270E	Total/NA
Benzo[a]pyrene	0.10		0.035	0.034	mg/Kg	1	✳	8270E	Total/NA
Benzo[b]fluoranthene	0.15		0.035	0.034	mg/Kg	1	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.083		0.035	0.0077	mg/Kg	1	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.052		0.035	0.014	mg/Kg	1	✳	8270E	Total/NA
Chrysene	0.11		0.035	0.0094	mg/Kg	1	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.039		0.035	0.035	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	0.17		0.035	0.0083	mg/Kg	1	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.035	0.035	mg/Kg	1	✳	8270E	Total/NA
Naphthalene	0.0075	J	0.035	0.0064	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	0.086		0.035	0.0078	mg/Kg	1	✳	8270E	Total/NA
Pyrene	0.16		0.035	0.0097	mg/Kg	1	✳	8270E	Total/NA
Arsenic	3.5		0.53	0.18	mg/Kg	1	✳	6010D	Total/NA
Barium	46		0.53	0.060	mg/Kg	1	✳	6010D	Total/NA
Beryllium	0.55		0.21	0.049	mg/Kg	1	✳	6010D	Total/NA
Boron	8.5		2.6	0.25	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.28	B	0.11	0.019	mg/Kg	1	✳	6010D	Total/NA
Calcium	22000	B	11	1.8	mg/Kg	1	✳	6010D	Total/NA
Chromium	10		0.53	0.26	mg/Kg	1	✳	6010D	Total/NA
Cobalt	5.5		0.26	0.069	mg/Kg	1	✳	6010D	Total/NA
Copper	16	^1+	0.53	0.15	mg/Kg	1	✳	6010D	Total/NA
Iron	10000	B	11	5.5	mg/Kg	1	✳	6010D	Total/NA
Lead	100		0.26	0.12	mg/Kg	1	✳	6010D	Total/NA
Magnesium	12000	B	5.3	2.6	mg/Kg	1	✳	6010D	Total/NA
Manganese	250	B	0.53	0.077	mg/Kg	1	✳	6010D	Total/NA
Nickel	14		0.53	0.15	mg/Kg	1	✳	6010D	Total/NA
Potassium	1000		26	9.4	mg/Kg	1	✳	6010D	Total/NA
Selenium	0.38	J	0.53	0.31	mg/Kg	1	✳	6010D	Total/NA
Sodium	450		53	7.8	mg/Kg	1	✳	6010D	Total/NA
Vanadium	15		0.26	0.062	mg/Kg	1	✳	6010D	Total/NA
Zinc	99		1.1	0.46	mg/Kg	1	✳	6010D	Total/NA
Barium	0.27	J	0.50	0.050	mg/L	1		6010D	TCLP
Boron	0.14	J B	0.50	0.050	mg/L	1		6010D	TCLP
Cadmium	0.0032	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Iron	0.39	J	0.40	0.20	mg/L	1		6010D	TCLP
Lead	0.073		0.0075	0.0075	mg/L	1		6010D	TCLP
Manganese	1.8		0.025	0.010	mg/L	1		6010D	TCLP
Selenium	0.028	J B **	0.050	0.020	mg/L	1		6010D	TCLP
Zinc	0.43	J	0.50	0.020	mg/L	1		6010D	TCLP
Lead	0.23		0.0075	0.0075	mg/L	1		6010D	SPLP East
Manganese	0.31		0.025	0.010	mg/L	1		6010D	SPLP East
Mercury	0.034		0.017	0.0092	mg/Kg	1	✳	7471B	Total/NA
pH	9.0		0.2	0.2	SU	1		9045D	Total/NA

**Client Sample ID: 3603-05-B01 (0-1)**

**Lab Sample ID: 500-238387-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.022	J	0.037	0.0075	mg/Kg	1	✳	8270E	Total/NA
Acenaphthylene	0.0063	J	0.037	0.0063	mg/Kg	1	✳	8270E	Total/NA
Anthracene	0.053		0.037	0.0076	mg/Kg	1	✳	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Sample Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238387-1	3603-02-B01 (0-1)	Solid	08/18/23 09:00	08/18/23 13:40
500-238387-2	3603-03-B11 (0-4)	Solid	08/18/23 09:20	08/18/23 13:40
500-238387-3	3603-03-B12 (0-4)	Solid	08/18/23 09:35	08/18/23 13:40
500-238387-4	3603-05-B01 (0-1)	Solid	08/18/23 10:10	08/18/23 13:40
500-238387-5	3603-03-B13 (0-4)	Solid	08/18/23 10:25	08/18/23 13:40
500-238387-6	3603-03-B13 DUP (0-4)	Solid	08/18/23 10:30	08/18/23 13:40
500-238387-7	3603-03-B14 (0-4)	Solid	08/18/23 10:50	08/18/23 13:40

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

**Client Sample ID: 3603-03-B12 (0-4)**

**Lab Sample ID: 500-238387-3**

**Date Collected: 08/18/23 09:35**

**Matrix: Solid**

**Date Received: 08/18/23 13:40**

**Percent Solids: 90.7**

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.024		0.024	0.010	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Benzene	<0.0024		0.0024	0.00060	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Bromodichloromethane	<0.0024		0.0024	0.00048	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Bromoform	<0.0024		0.0024	0.00069	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Bromomethane	<0.0059		0.0059	0.0022	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
2-Butanone (MEK)	<0.0059		0.0059	0.0026	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Carbon disulfide	<0.0059		0.0059	0.0012	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Carbon tetrachloride	<0.0024		0.0024	0.00068	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Chlorobenzene	<0.0024		0.0024	0.00087	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Chloroethane	<0.0059		0.0059	0.0017	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Chloroform	<0.0024		0.0024	0.00082	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Chloromethane	<0.0059		0.0059	0.0024	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
cis-1,2-Dichloroethene	<0.0024		0.0024	0.00066	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
cis-1,3-Dichloropropene	<0.0024		0.0024	0.00071	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Dibromochloromethane	<0.0024		0.0024	0.00077	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,1-Dichloroethane	<0.0024		0.0024	0.00080	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,2-Dichloroethane	<0.0059		0.0059	0.0018	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,1-Dichloroethene	<0.0024		0.0024	0.00081	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,2-Dichloropropane	<0.0024		0.0024	0.00061	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,3-Dichloropropene, Total	<0.0024		0.0024	0.00082	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Ethylbenzene	<0.0024		0.0024	0.0011	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
2-Hexanone	<0.0059		0.0059	0.0018	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Methylene Chloride	<0.0059		0.0059	0.0023	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
4-Methyl-2-pentanone (MIBK)	<0.0059		0.0059	0.0017	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Methyl tert-butyl ether	<0.0024		0.0024	0.00069	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Styrene	<0.0024		0.0024	0.00071	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,1,2,2-Tetrachloroethane	<0.0024		0.0024	0.00075	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Tetrachloroethene	<0.0024		0.0024	0.00080	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Toluene	<0.0024		0.0024	0.00059	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
trans-1,2-Dichloroethene	<0.0024		0.0024	0.0010	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
trans-1,3-Dichloropropene	<0.0024		0.0024	0.00082	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,1,1-Trichloroethane	<0.0024		0.0024	0.00079	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
1,1,2-Trichloroethane	<0.0024		0.0024	0.0010	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Trichloroethene	<0.0024		0.0024	0.00079	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Vinyl acetate	<0.0059		0.0059	0.0020	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Vinyl chloride	<0.0024		0.0024	0.0010	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1
Xylenes, Total	<0.0047		0.0047	0.00075	mg/Kg	✳	08/18/23 19:35	08/24/23 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		75 - 131	08/18/23 19:35	08/24/23 23:09	1
Dibromofluoromethane	94		75 - 126	08/18/23 19:35	08/24/23 23:09	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 134	08/18/23 19:35	08/24/23 23:09	1
Toluene-d8 (Surr)	97		75 - 124	08/18/23 19:35	08/24/23 23:09	1

**Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.035		0.035	0.0073	mg/Kg	✳	08/22/23 13:09	08/23/23 19:49	1
Acenaphthylene	<0.035		0.035	0.0061	mg/Kg	✳	08/22/23 13:09	08/23/23 19:49	1
<b>Anthracene</b>	<b>0.018</b>	<b>J</b>	0.035	0.0073	mg/Kg	✳	08/22/23 13:09	08/23/23 19:49	1
<b>Benzo[a]anthracene</b>	<b>0.087</b>		0.035	0.0076	mg/Kg	✳	08/22/23 13:09	08/23/23 19:49	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

**Client Sample ID: 3603-03-B12 (0-4)**

**Lab Sample ID: 500-238387-3**

Date Collected: 08/18/23 09:35

Matrix: Solid

Date Received: 08/18/23 13:40

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzo[a]pyrene</b>	<b>0.10</b>		0.035	0.034	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Benzo[b]fluoranthene</b>	<b>0.15</b>		0.035	0.034	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Benzo[g,h,i]perylene</b>	<b>0.083</b>		0.035	0.0077	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Benzo[k]fluoranthene</b>	<b>0.052</b>		0.035	0.014	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Bis(2-chloroethoxy)methane	<0.18		0.18	0.013	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Bis(2-chloroethyl)ether	<0.18		0.18	0.016	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Bis(2-ethylhexyl) phthalate	<0.18		0.18	0.14	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
4-Bromophenyl phenyl ether	<0.18		0.18	0.024	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Butyl benzyl phthalate	<0.18		0.18	0.018	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Carbazole	<0.18		0.18	0.014	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
4-Chloroaniline	<0.72		0.72	0.37	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
4-Chloro-3-methylphenol	<0.35		0.35	0.014	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2-Chloronaphthalene	<0.18		0.18	0.013	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2-Chlorophenol	<0.18		0.18	0.011	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
4-Chlorophenyl phenyl ether	<0.18		0.18	0.047	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Chrysene</b>	<b>0.11</b>		0.035	0.0094	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Dibenz(a,h)anthracene</b>	<b>0.039</b>		0.035	0.035	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Dibenzofuran	<0.18		0.18	0.013	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
1,2-Dichlorobenzene	<0.18		0.18	0.015	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
1,3-Dichlorobenzene	<0.18		0.18	0.016	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
1,4-Dichlorobenzene	<0.18		0.18	0.017	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
3,3'-Dichlorobenzidine	<0.18		0.18	0.029	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2,4-Dichlorophenol	<0.35		0.35	0.013	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Diethyl phthalate	<0.18		0.18	0.016	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2,4-Dimethylphenol	<0.35		0.35	0.080	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Dimethyl phthalate	<0.18		0.18	0.0077	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Di-n-butyl phthalate	<0.18		0.18	0.011	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
4,6-Dinitro-2-methylphenol	<0.72		0.72	0.20	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2,4-Dinitrophenol	<0.72		0.72	0.21	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2,4-Dinitrotoluene	<0.18		0.18	0.020	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2,6-Dinitrotoluene	<0.18		0.18	0.012	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Di-n-octyl phthalate	<0.35		0.35	0.25	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Fluoranthene</b>	<b>0.17</b>		0.035	0.0083	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Fluorene	<0.035		0.035	0.011	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Hexachlorobenzene	<0.072		0.072	0.0068	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Hexachlorobutadiene	<0.18		0.18	0.020	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Hexachlorocyclopentadiene	<0.72		0.72	0.38	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Hexachloroethane	<0.18		0.18	0.018	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.12</b>		0.035	0.035	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Isophorone	<0.18		0.18	0.018	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2-Methylnaphthalene	<0.072		0.072	0.0072	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2-Methylphenol	<0.18		0.18	0.019	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
3 & 4 Methylphenol	<0.18		0.18	0.026	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
<b>Naphthalene</b>	<b>0.0075 J</b>		0.035	0.0064	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2-Nitroaniline	<0.18		0.18	0.019	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
3-Nitroaniline	<0.35		0.35	0.016	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
4-Nitroaniline	<0.35		0.35	0.026	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
Nitrobenzene	<0.035		0.035	0.011	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1
2-Nitrophenol	<0.35		0.35	0.024	mg/Kg	☆	08/22/23 13:09	08/23/23 19:49	1

Eurolins Chicago

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

**Client Sample ID: 3603-03-B12 (0-4)**

**Lab Sample ID: 500-238387-3**

**Date Collected: 08/18/23 09:35**

**Matrix: Solid**

**Date Received: 08/18/23 13:40**

**Percent Solids: 90.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<0.72		0.72	0.13	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
N-Nitrosodi-n-propylamine	<0.072		0.072	0.0070	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
N-Nitrosodiphenylamine	<0.18		0.18	0.021	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
2,2'-oxybis[1-chloropropane]	<0.18		0.18	0.026	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
Pentachlorophenol	<0.72		0.72	0.089	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
<b>Phenanthrene</b>	<b>0.086</b>		0.035	0.0078	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
Phenol	<0.18		0.18	0.015	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
<b>Pyrene</b>	<b>0.16</b>		0.035	0.0097	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
1,2,4-Trichlorobenzene	<0.18		0.18	0.025	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
2,4,5-Trichlorophenol	<0.35		0.35	0.013	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
2,4,6-Trichlorophenol	<0.35		0.35	0.012	mg/Kg	✱	08/22/23 13:09	08/23/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		43 - 145				08/22/23 13:09	08/23/23 19:49	1
2-Fluorophenol (Surr)	78		31 - 166				08/22/23 13:09	08/23/23 19:49	1
Nitrobenzene-d5 (Surr)	75		37 - 147				08/22/23 13:09	08/23/23 19:49	1
Phenol-d5 (Surr)	76		30 - 153				08/22/23 13:09	08/23/23 19:49	1
Terphenyl-d14 (Surr)	92		42 - 157				08/22/23 13:09	08/23/23 19:49	1
2,4,6-Tribromophenol (Surr)	76		31 - 143				08/22/23 13:09	08/23/23 19:49	1

**Method: SW846 6010D - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.1		1.1	0.21	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Arsenic</b>	<b>3.5</b>		0.53	0.18	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Barium</b>	<b>46</b>		0.53	0.060	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Beryllium</b>	<b>0.55</b>		0.21	0.049	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Boron</b>	<b>8.5</b>		2.6	0.25	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Cadmium</b>	<b>0.28</b>	<b>B</b>	0.11	0.019	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Calcium</b>	<b>22000</b>	<b>B</b>	11	1.8	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Chromium</b>	<b>10</b>		0.53	0.26	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Cobalt</b>	<b>5.5</b>		0.26	0.069	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Copper</b>	<b>16</b>	<b>^1+</b>	0.53	0.15	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Iron</b>	<b>10000</b>	<b>B</b>	11	5.5	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Lead</b>	<b>100</b>		0.26	0.12	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Magnesium</b>	<b>12000</b>	<b>B</b>	5.3	2.6	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Manganese</b>	<b>250</b>	<b>B</b>	0.53	0.077	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Nickel</b>	<b>14</b>		0.53	0.15	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Potassium</b>	<b>1000</b>		26	9.4	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Selenium</b>	<b>0.38</b>	<b>J</b>	0.53	0.31	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
Silver	<0.26		0.26	0.068	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Sodium</b>	<b>450</b>		53	7.8	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
Thallium	<0.53		0.53	0.26	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Vanadium</b>	<b>15</b>		0.26	0.062	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1
<b>Zinc</b>	<b>99</b>		1.1	0.46	mg/Kg	✱	08/31/23 09:21	09/05/23 20:16	1

**Method: SW846 6010D - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.27</b>	<b>J</b>	0.50	0.050	mg/L		08/30/23 07:56	09/05/23 23:00	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		08/30/23 07:56	09/05/23 23:00	1
<b>Boron</b>	<b>0.14</b>	<b>J B</b>	0.50	0.050	mg/L		08/30/23 07:56	09/05/23 23:00	1

Eurofins Chicago

# Client Sample Results

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

**Client Sample ID: 3603-03-B12 (0-4)**

**Lab Sample ID: 500-238387-3**

Date Collected: 08/18/23 09:35

Matrix: Solid

Date Received: 08/18/23 13:40

Percent Solids: 90.7

**Method: SW846 6010D - Metals (ICP) - TCLP (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cadmium</b>	<b>0.0032</b>	<b>J</b>	0.0050	0.0020	mg/L		08/30/23 07:56	09/05/23 23:00	1
Chromium	<0.025		0.025	0.010	mg/L		08/30/23 07:56	09/06/23 18:43	1
Cobalt	<0.025		0.025	0.010	mg/L		08/30/23 07:56	09/05/23 23:00	1
<b>Iron</b>	<b>0.39</b>	<b>J</b>	0.40	0.20	mg/L		08/30/23 07:56	09/07/23 17:30	1
<b>Lead</b>	<b>0.073</b>		0.0075	0.0075	mg/L		08/30/23 07:56	09/05/23 23:00	1
<b>Manganese</b>	<b>1.8</b>		0.025	0.010	mg/L		08/30/23 07:56	09/05/23 23:00	1
Nickel	<0.025		0.025	0.010	mg/L		08/30/23 07:56	09/05/23 23:00	1
<b>Selenium</b>	<b>0.028</b>	<b>J B *+</b>	0.050	0.020	mg/L		08/30/23 07:56	09/07/23 17:30	1
Silver	<0.025		0.025	0.010	mg/L		08/30/23 07:56	09/06/23 18:43	1
<b>Zinc</b>	<b>0.43</b>	<b>J</b>	0.50	0.020	mg/L		08/30/23 07:56	09/05/23 23:00	1

**Method: SW846 6010D - Metals (ICP) - SPLP East**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>0.23</b>		0.0075	0.0075	mg/L		08/30/23 07:58	09/11/23 17:24	1
<b>Manganese</b>	<b>0.31</b>		0.025	0.010	mg/L		08/30/23 07:58	09/11/23 17:24	1

**Method: SW846 6020B - Metals (ICP/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0060		0.0060	0.0060	mg/L		08/30/23 07:56	09/13/23 21:41	1
Thallium	<0.0020		0.0020	0.0020	mg/L		08/30/23 07:56	09/13/23 21:41	1

**Method: SW846 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/30/23 11:30	08/31/23 09:37	1

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.034</b>		0.017	0.0092	mg/Kg	☼	08/30/23 16:05	08/31/23 13:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>9.0</b>		0.2	0.2	SU			08/22/23 18:47	1



# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## GC/MS VOA

### Prep Batch: 728750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	5035	
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	5035	
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	5035	
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	5035	
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	5035	
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	5035	
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	5035	

### Analysis Batch: 729367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	8260D	728750
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	8260D	728750
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	8260D	728750
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	8260D	728750
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	8260D	728750
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	8260D	728750
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	8260D	728750
MB 500-729367/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-729367/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-729367/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

## GC/MS Semi VOA

### Prep Batch: 728910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	3546	
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	3546	
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	3546	
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	3546	
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	3546	
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	3546	
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	3546	
MB 500-728910/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-728910/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Analysis Batch: 729015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	8270E	728910
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	8270E	728910
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	8270E	728910
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	8270E	728910
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	8270E	728910
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	8270E	728910

### Analysis Batch: 729020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-728910/1-A	Method Blank	Total/NA	Solid	8270E	728910
LCS 500-728910/2-A	Lab Control Sample	Total/NA	Solid	8270E	728910

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## GC/MS Semi VOA

### Analysis Batch: 729261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	8270E	728910

## Metals

### Leach Batch: 729709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	1311	
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	1311	
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	1311	
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	1311	
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	1311	
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	1311	
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	1311	
LB 500-729709/1-B	Method Blank	TCLP	Solid	1311	
LB 500-729709/1-C	Method Blank	TCLP	Solid	1311	

### Leach Batch: 729710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	SPLP East	Solid	1312	
500-238387-2	3603-03-B11 (0-4)	SPLP East	Solid	1312	
500-238387-3	3603-03-B12 (0-4)	SPLP East	Solid	1312	
500-238387-4	3603-05-B01 (0-1)	SPLP East	Solid	1312	
500-238387-5	3603-03-B13 (0-4)	SPLP East	Solid	1312	
500-238387-6	3603-03-B13 DUP (0-4)	SPLP East	Solid	1312	
500-238387-7	3603-03-B14 (0-4)	SPLP East	Solid	1312	
LB 500-729710/1-B	Method Blank	SPLP East	Solid	1312	

### Prep Batch: 730039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	3010A	729709
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	3010A	729709
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	3010A	729709
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	3010A	729709
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	3010A	729709
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	3010A	729709
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	3010A	729709
LB 500-729709/1-B	Method Blank	TCLP	Solid	3010A	729709
LCS 500-730039/2-A	Lab Control Sample	Total/NA	Solid	3010A	

### Prep Batch: 730041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	SPLP East	Solid	3010A	729710
500-238387-2	3603-03-B11 (0-4)	SPLP East	Solid	3010A	729710
500-238387-3	3603-03-B12 (0-4)	SPLP East	Solid	3010A	729710
500-238387-4	3603-05-B01 (0-1)	SPLP East	Solid	3010A	729710
500-238387-5	3603-03-B13 (0-4)	SPLP East	Solid	3010A	729710
500-238387-6	3603-03-B13 DUP (0-4)	SPLP East	Solid	3010A	729710
500-238387-7	3603-03-B14 (0-4)	SPLP East	Solid	3010A	729710
LB 500-729710/1-B	Method Blank	SPLP East	Solid	3010A	729710
LCS 500-730041/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## Metals

### Prep Batch: 730137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	7470A	729709
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	7470A	729709
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	7470A	729709
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	7470A	729709
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	7470A	729709
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	7470A	729709
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	7470A	729709
LB 500-729709/1-C	Method Blank	TCLP	Solid	7470A	729709
MB 500-730137/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-730137/14-A	Lab Control Sample	Total/NA	Solid	7470A	

### Prep Batch: 730151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	7471B	
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	7471B	
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	7471B	
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	7471B	
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	7471B	
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	7471B	
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	7471B	
MB 500-730151/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-730151/13-A	Lab Control Sample	Total/NA	Solid	7471B	

### Prep Batch: 730321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	3050B	
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	3050B	
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	3050B	
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	3050B	
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	3050B	
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	3050B	
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	3050B	
MB 500-730321/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-730321/2-A	Lab Control Sample	Total/NA	Solid	3050B	

### Analysis Batch: 730327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	7470A	730137
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	7470A	730137
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	7470A	730137
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	7470A	730137
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	7470A	730137
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	7470A	730137
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	7470A	730137
LB 500-729709/1-C	Method Blank	TCLP	Solid	7470A	730137
MB 500-730137/12-A	Method Blank	Total/NA	Solid	7470A	730137
LCS 500-730137/14-A	Lab Control Sample	Total/NA	Solid	7470A	730137

### Analysis Batch: 730395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	7471B	730151

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## Metals (Continued)

### Analysis Batch: 730395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	7471B	730151
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	7471B	730151
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	7471B	730151
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	7471B	730151
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	7471B	730151
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	7471B	730151
MB 500-730151/12-A	Method Blank	Total/NA	Solid	7471B	730151
LCS 500-730151/13-A	Lab Control Sample	Total/NA	Solid	7471B	730151

### Analysis Batch: 730940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-729710/1-B	Method Blank	SPLP East	Solid	6010D	730041
LCS 500-730041/2-A	Lab Control Sample	Total/NA	Solid	6010D	730041

### Analysis Batch: 730941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	6010D	730321
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	6010D	730321
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	6010D	730321
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	6010D	730321
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	6010D	730321
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	6010D	730321
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	6010D	730321
MB 500-730321/1-A	Method Blank	Total/NA	Solid	6010D	730321
LCS 500-730321/2-A	Lab Control Sample	Total/NA	Solid	6010D	730321

### Analysis Batch: 730979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	6010D	730039
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	6010D	730039
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	6010D	730039
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	6010D	730039
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	6010D	730039
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	6010D	730039
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	6010D	730039
LB 500-729709/1-B	Method Blank	TCLP	Solid	6010D	730039
LCS 500-730039/2-A	Lab Control Sample	Total/NA	Solid	6010D	730039

### Analysis Batch: 731192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	6010D	730039
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	6010D	730039
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	6010D	730039
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	6010D	730039
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	6010D	730039
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	6010D	730039
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	6010D	730039
LB 500-729709/1-B	Method Blank	TCLP	Solid	6010D	730039
LCS 500-730039/2-A	Lab Control Sample	Total/NA	Solid	6010D	730039

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## Metals

### Analysis Batch: 731214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	6010D	730321
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	6010D	730321
LCS 500-730321/2-A	Lab Control Sample	Total/NA	Solid	6010D	730321

### Analysis Batch: 731386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	6010D	730039
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	6010D	730039
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	6010D	730039
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	6010D	730039
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	6010D	730039
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	6010D	730039
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	6010D	730039
LB 500-729709/1-B	Method Blank	TCLP	Solid	6010D	730039
LCS 500-730039/2-A	Lab Control Sample	Total/NA	Solid	6010D	730039

### Analysis Batch: 731832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	SPLP East	Solid	6010D	730041
500-238387-2	3603-03-B11 (0-4)	SPLP East	Solid	6010D	730041
500-238387-3	3603-03-B12 (0-4)	SPLP East	Solid	6010D	730041
500-238387-4	3603-05-B01 (0-1)	SPLP East	Solid	6010D	730041
500-238387-5	3603-03-B13 (0-4)	SPLP East	Solid	6010D	730041
500-238387-6	3603-03-B13 DUP (0-4)	SPLP East	Solid	6010D	730041
500-238387-7	3603-03-B14 (0-4)	SPLP East	Solid	6010D	730041

### Analysis Batch: 732318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	TCLP	Solid	6020B	730039
500-238387-2	3603-03-B11 (0-4)	TCLP	Solid	6020B	730039
500-238387-3	3603-03-B12 (0-4)	TCLP	Solid	6020B	730039
500-238387-4	3603-05-B01 (0-1)	TCLP	Solid	6020B	730039
500-238387-5	3603-03-B13 (0-4)	TCLP	Solid	6020B	730039
500-238387-6	3603-03-B13 DUP (0-4)	TCLP	Solid	6020B	730039
500-238387-7	3603-03-B14 (0-4)	TCLP	Solid	6020B	730039
LB 500-729709/1-B	Method Blank	TCLP	Solid	6020B	730039
LCS 500-730039/2-A	Lab Control Sample	Total/NA	Solid	6020B	730039

## General Chemistry

### Analysis Batch: 728712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	Moisture	
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	Moisture	
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	Moisture	
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	Moisture	
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	Moisture	

### Analysis Batch: 728870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	Moisture	

Eurofins Chicago

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## General Chemistry (Continued)

### Analysis Batch: 728870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	Moisture	

### Analysis Batch: 728973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238387-1	3603-02-B01 (0-1)	Total/NA	Solid	9045D	
500-238387-2	3603-03-B11 (0-4)	Total/NA	Solid	9045D	
500-238387-3	3603-03-B12 (0-4)	Total/NA	Solid	9045D	
500-238387-4	3603-05-B01 (0-1)	Total/NA	Solid	9045D	
500-238387-5	3603-03-B13 (0-4)	Total/NA	Solid	9045D	
500-238387-6	3603-03-B13 DUP (0-4)	Total/NA	Solid	9045D	
500-238387-7	3603-03-B14 (0-4)	Total/NA	Solid	9045D	
LCS 500-728973/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-728973/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

# Surrogate Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(75-131)	(75-126)	(70-134)	(75-124)
500-238387-1	3603-02-B01 (0-1)	93	96	93	95
500-238387-2	3603-03-B11 (0-4)	89	97	94	92
500-238387-3	3603-03-B12 (0-4)	92	94	93	97
500-238387-4	3603-05-B01 (0-1)	107	97	95	99
500-238387-5	3603-03-B13 (0-4)	98	97	90	98
500-238387-6	3603-03-B13 DUP (0-4)	85	99	98	91
500-238387-7	3603-03-B14 (0-4)	92	94	95	96
LCS 500-729367/4	Lab Control Sample	84	86	86	98
LCSD 500-729367/5	Lab Control Sample Dup	85	86	87	96
MB 500-729367/7	Method Blank	86	94	95	94

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP	2FP	NBZ	PHL	TPHL	TBP
		(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)
500-238387-1	3603-02-B01 (0-1)	78	66	71	67	82	67
500-238387-2	3603-03-B11 (0-4)	86	80	80	78	94	80
500-238387-3	3603-03-B12 (0-4)	83	78	75	76	92	76
500-238387-4	3603-05-B01 (0-1)	95	82	84	82	108	91
500-238387-5	3603-03-B13 (0-4)	80	75	74	72	89	76
500-238387-6	3603-03-B13 DUP (0-4)	72	71	68	68	82	72
500-238387-7	3603-03-B14 (0-4)	83	74	73	72	100	81
LCS 500-728910/2-A	Lab Control Sample	79	73	73	77	82	82
MB 500-728910/1-A	Method Blank	66	64	65	69	78	65

#### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)  
PHL = Phenol-d5 (Surr)  
TPHL = Terphenyl-d14 (Surr)  
TBP = 2,4,6-Tribromophenol (Surr)

# Lab Chronicle

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

**Client Sample ID: 3603-03-B11 (0-4)**  
**Date Collected: 08/18/23 09:20**  
**Date Received: 08/18/23 13:40**

**Lab Sample ID: 500-238387-2**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	730979	RN	EET CHI	09/05/23 22:57
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	731192	JAB	EET CHI	09/06/23 18:39
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6020B		1	732318	PFK	EET CHI	09/13/23 21:38
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	7470A			730137	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 <sup>1</sup>
TCLP	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 09:35
Total/NA	Analysis	9045D		1	728973	LWN	EET CHI	08/22/23 18:45
Total/NA	Analysis	Moisture		1	728712	LWN	EET CHI	08/21/23 14:46

**Client Sample ID: 3603-03-B11 (0-4)**  
**Date Collected: 08/18/23 09:20**  
**Date Received: 08/18/23 13:40**

**Lab Sample ID: 500-238387-2**  
**Matrix: Solid**  
**Percent Solids: 86.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			728750	WRE	EET CHI	08/18/23 19:35
Total/NA	Analysis	8260D		1	729367	W1T	EET CHI	08/24/23 22:44
Total/NA	Prep	3546			728910	GM	EET CHI	08/22/23 13:09
Total/NA	Analysis	8270E		1	729015	SS	EET CHI	08/23/23 19:26
Total/NA	Prep	3050B			730321	BDE	EET CHI	08/31/23 09:21 - 08/31/23 09:51 <sup>1</sup>
Total/NA	Analysis	6010D		1	730941	RN	EET CHI	09/05/23 20:12
Total/NA	Prep	7471B			730151	MJG	EET CHI	08/30/23 16:05
Total/NA	Analysis	7471B		1	730395	MJG	EET CHI	08/31/23 13:04

**Client Sample ID: 3603-03-B12 (0-4)**  
**Date Collected: 08/18/23 09:35**  
**Date Received: 08/18/23 13:40**

**Lab Sample ID: 500-238387-3**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			729710	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
SPLP East	Prep	3010A			730041	BDE	EET CHI	08/30/23 07:58 - 08/30/23 08:28 <sup>1</sup>
SPLP East	Analysis	6010D		1	731832	RN	EET CHI	09/11/23 17:24
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	731386	JAB	EET CHI	09/07/23 17:30
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	730979	RN	EET CHI	09/05/23 23:00
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	731192	JAB	EET CHI	09/06/23 18:43

Eurofins Chicago



# Lab Chronicle

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO20 FAI 94

Job ID: 500-238387-1

**Client Sample ID: 3603-03-B12 (0-4)**  
Date Collected: 08/18/23 09:35  
Date Received: 08/18/23 13:40

**Lab Sample ID: 500-238387-3**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6020B		1	732318	PFK	EET CHI	09/13/23 21:41
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	7470A			730137	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 <sup>1</sup>
TCLP	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 09:37
Total/NA	Analysis	9045D		1	728973	LWN	EET CHI	08/22/23 18:47
Total/NA	Analysis	Moisture		1	728712	LWN	EET CHI	08/21/23 14:46

**Client Sample ID: 3603-03-B12 (0-4)**  
Date Collected: 08/18/23 09:35  
Date Received: 08/18/23 13:40

**Lab Sample ID: 500-238387-3**  
Matrix: Solid  
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			728750	WRE	EET CHI	08/18/23 19:35
Total/NA	Analysis	8260D		1	729367	W1T	EET CHI	08/24/23 23:09
Total/NA	Prep	3546			728910	GM	EET CHI	08/22/23 13:09
Total/NA	Analysis	8270E		1	729015	SS	EET CHI	08/23/23 19:49
Total/NA	Prep	3050B			730321	BDE	EET CHI	08/31/23 09:21 - 08/31/23 09:51 <sup>1</sup>
Total/NA	Analysis	6010D		1	730941	RN	EET CHI	09/05/23 20:16
Total/NA	Prep	7471B			730151	MJG	EET CHI	08/30/23 16:05
Total/NA	Analysis	7471B		1	730395	MJG	EET CHI	08/31/23 13:06

**Client Sample ID: 3603-05-B01 (0-1)**  
Date Collected: 08/18/23 10:10  
Date Received: 08/18/23 13:40

**Lab Sample ID: 500-238387-4**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			729710	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
SPLP East	Prep	3010A			730041	BDE	EET CHI	08/30/23 07:58 - 08/30/23 08:28 <sup>1</sup>
SPLP East	Analysis	6010D		1	731832	RN	EET CHI	09/11/23 17:28
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	731386	JAB	EET CHI	09/07/23 17:33
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	730979	RN	EET CHI	09/05/23 23:04
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6010D		1	731192	JAB	EET CHI	09/06/23 18:46
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	3010A			730039	BDE	EET CHI	08/30/23 07:56 - 08/30/23 08:26 <sup>1</sup>
TCLP	Analysis	6020B		1	732318	PFK	EET CHI	09/13/23 21:44
TCLP	Leach	1311			729709	SS	EET CHI	08/28/23 12:08 - 08/29/23 04:08 <sup>1</sup>
TCLP	Prep	7470A			730137	MJG	EET CHI	08/30/23 11:30 - 08/30/23 13:30 <sup>1</sup>
TCLP	Analysis	7470A		1	730327	MJG	EET CHI	08/31/23 09:39

Eurofins Chicago

# Chain of Custody Record

668302



S | Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

500-238387 COC

TAL-8210

Client Contact		Project Manager <b>D Tiebout</b>		Site Contact <b>T. Trojan</b>		Date <b>8-18-23</b>									
Company Name <b>WSP</b>		Tel/Email		Lab Contact <b>S. Knapp</b>		Carrier									
Address <b>30 N LaSalle</b>		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sampler									
City/State/Zip <b>Chicago IL</b>															
Phone						For Lab Use Only									
Fax						Walk-in Client									
Project Name <b>WSP11 W020 1-94</b>						Lab Sampling									
Site <b>31403035.020 1-94</b>						Job / SDG No									
P O #						<b>500-238387</b>									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PH	7-Solids	Total Metals	VOCs	SVOCs	TCLP *	Sample Specific Notes
1	3603-02-B01 (0-1)	8/18/23	0900	C	S	2			X	X	X	X	X	X	
2	3603-03-B11 (0-4)	8/18/23	0920	C	S	2			X	X	X	X	X	X	
3	3603-03-B12 (0-4)	8/18/23	0935	C	S	2			X	X	X	X	X	X	
4	3603-05-B01 (0-1)	8/19/23	1010	C	S	2			X	X	X	X	X	X	
5	3603-03-B13 (0-4)	8/18/23	1025	C	S	2			X	X	X	X	X	X	
6	3603-03-B13 DUP (0-4)	8/18/23	1030	C	S	2			X	X	X	X	X	X	
7	3603-03-B14 (0-4)	8/18/23	1050	C	S	2			X	X	X	X	X	X	
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: <b>* SPLP analysis based on TCLP results</b>															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No				Cooler Temp (°C) Obs'd <b>5.4</b> Corr'd <b>4.3</b>				Therm ID No _____			
Relinquished by <b>[Signature]</b>		Company <b>WSP</b>		Date/Time <b>8/18/23 1340</b>		Received by		Company		Date/Time					
Relinquished by		Company		Date/Time		Received by		Company		Date/Time					
Relinquished by		Company		Date/Time		Received in Laboratory by <b>[Signature]</b>		Company <b>EETA</b>		Date/Time <b>8-18-23</b>		<b>1340</b> <b>1335 JKH</b>			

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 500-238387-1

**Login Number: 238387**

**List Number: 1**

**Creator: James, Jeff A**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

