



# 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 90/94 (I-90/94) Office Phone Number, if available: \_\_\_\_\_

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

M.M. 44 to M.M. 50 Northbound I-90/94 (ROW) ISGS #3835-1

City: Chicago State: IL Zip Code: 60622

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

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

Latitude: 41.9259 Longitude: -87.68445

(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.): 112

### 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: 847-705-4633

Contact: Jeffrey Williams

Email, if available: Jeffrey.Williams@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: 847-705-4633

Contact: Jeffrey Williams

Email, if available: Jeffrey.Williams@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 3835-01-B03 and 3835-01-B06 were sampled within the construction zone adjacent to ISGS #3835-1 (ROW). Refer to PSI Report for Sign Structure 11 and Division Street AIS within site ISGS #3835-1 (ROW).

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 J246820-1.

**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.

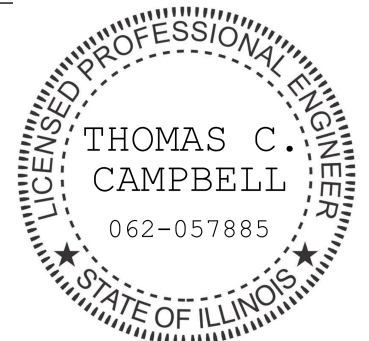
***Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))***

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:

*Thomas C. Campbell*  
Licensed Professional Engineer or  
Licensed Professional Geologist Signature:

04/12/2024  
Date:



Expires 11/30/2025

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

## Data Table Key

PTB #196-002; Work Order 027A - IDOT Job # D-91-441-20

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.

J = Estimated value.

U = Analyte was analyzed for but not detected.

R = Result rejected due to quality control result outside of range.

# = 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.

L = The detected TCLP/SPLP concentration exceeds the TACO Tier 1 SCGIER.

 = Concentration exceeds the most stringent MAC only.

 = Concentration exceeds applicable comparison criteria.

**CONTAMINANTS OF CONCERN - PTB #196-002; Work Order 027A - IDOT Job # D-91-441-20**

SITE	ISGS #3835-1 (ROW) SIGN 11			Comparison Criteria					
	3835-01-B03			MACs			TACO		
BORING	3835-01-B03			Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	3835-01-B03 (0-8)	3835-01-B03 (8-15)	3835-01-B03 (15-22)						
MATRIX	Soil	Soil	Soil						
DEPTH (feet)	0-8	8-15	15-22						
pH	8.4	7.7	7.7						
PID (MU)	--	--	--						
<b>VOCs (mg/kg)</b>									
Acetone	ND U	0.0099 J	0.011 J	25	--	--	70,000	100,000	--
<b>SVOCs (mg/kg)</b>									
2-Methylnaphthalene	0.056 J	0.044 J	ND U	--	--	--	--	--	--
Acenaphthene	0.039	0.037 J	ND U	570	--	0.939	4,700	120,000	--
Acenaphthylene	0.030 J	ND U	ND U	--	--	0.253	--	--	--
Anthracene	0.25	0.12	ND U	12,000	--	2.620	23,000	610,000	--
Benzo(a)anthracene	1.2 †	0.31	0.023 J	0.9	1.8	10.9	1.8	170	--
Benzo(a)pyrene	1.1 †	0.33 †	ND U	0.09	2.1	11.4	2.1	17	--
Benzo(b)fluoranthene	1.3 †	0.38	ND U	0.9	2.1	13.1	2.1	170	--
Benzo(g,h,i)perylene	0.58	0.23	ND U	--	--	4.44	--	--	--
Benzo(k)fluoranthene	0.55	0.17	ND U	9	--	8.14	9	1,700	--
Butyl benzyl phthalate	0.031 J	ND U	ND U	930	--	--	930	930	--
Carbazole	0.060 J	0.035 J	ND U	0.6	--	--	32	6,200	--
Chrysene	1.2	0.35	0.022 J	88	--	10.6	88	17,000	--
Dibenz(a,h)anthracene	0.25 J †	0.038	ND U	0.09	0.42	1.03	0.42	17	--
Dibenzofuran	0.041 J	0.048 J	ND U	--	--	--	--	--	--
Di-n-butyl phthalate	0.014 J	ND U	ND U	2,300	--	--	2,300	2,300	--
Fluoranthene	2.3	0.71	0.041	3,100	--	27.6	3,100	82,000	--
Fluorene	0.044	0.058	ND U	560	--	1.11	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.66 J	0.22	ND U	0.9	1.6	5.77	1.6	170	--
Naphthalene	0.054	0.056	ND U	1.8	--	0.258	170	1.8	--
Phenanthrene	0.79	0.52	0.031 J	--	--	15.3	--	--	--
Pyrene	1.8	0.64	0.034 J	2,300	--	17.9	2,300	61,000	--
<b>Inorganics (mg/kg)</b>									
Antimony	0.35 J	0.23 J	0.23 J	5	--	--	31	82	--
Arsenic	8.8	6.4	6.6	11.3	13	--	13	61	--
Barium	62	150	75	1,500	--	--	5,500	14,000	--
Beryllium	0.75	0.86	0.93	22	--	--	160	410	--
Boron	15	15	13	40	--	--	16,000	41,000	--
Cadmium	0.59	0.50	ND U	5.2	--	--	78	200	--
Calcium	53,000	57,000	27,000	--	--	--	--	--	--
Chromium	15	18	20	21	--	--	230	690	--
Cobalt	11	12	15	20	--	--	4,700	12,000	--
Copper	35	27	28	2,900	--	--	2,900	8,200	--
Iron	24,000 †m	19,000 †m	21,000 †m	15,000	15,900	--	--	--	--
Lead	56	180 †	33	107	--	--	400	700	--
Magnesium	21,000	22,000	17,000	325,000	--	--	--	730,000	--
Manganese	350	460	320	630	636	--	1,600	4,100	--
Mercury	0.080	0.043	0.031	0.89	--	--	10	0.1	--
Nickel	27	29	36	100	--	--	1,600	4,100	--
Potassium	2,300	2,900	3,200	--	--	--	--	--	--
Selenium	0.50 J	ND U	ND U	1.3	--	--	390	1,000	--
Silver	0.62 J	0.48 J	0.11 J	4.4	--	--	390	1,000	--
Sodium	880	940	180	--	--	--	--	--	--
Thallium	0.83	1.2	0.80	2.6	--	--	6.3	160	--
Vanadium	19	23	25	550	--	--	550	1,400	--
Zinc	88	140	66	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>									
Barium	0.50	0.36 J	0.46 J	--	--	--	--	--	2
Boron	0.079 J	0.22 J	0.094 J	--	--	--	--	--	2
Cadmium	0.0035 J	0.0031 J	ND U	--	--	--	--	--	0.005
Cobalt	ND U	0.042	0.026	--	--	--	--	--	1
Iron	ND U	0.30 J	ND U	--	--	--	--	--	5
Lead	ND U	3.1 L	0.0083 L	--	--	--	--	--	0.0075
Manganese	0.75 L	5.9 L	3.5 L	--	--	--	--	--	0.15
Nickel	0.016 J	0.042	0.027	--	--	--	--	--	0.1
Zinc	0.059 J	2.4	ND U	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>									
Lead	NA	ND U	ND U	--	--	--	--	--	0.0075
Manganese	0.54 L	0.050	0.019 J	--	--	--	--	--	0.15



**CONTAMINANTS OF CONCERN - PTB #196-002; Work Order 027A - IDOT Job # D-91-441-20**

SITE	ISGS #3835-1 (ROW) DIVISION ST AIS	Comparison Criteria					
		MACs			TACO		
BORING	3835-01-B06	Most Stringent	Within an MSA	Within Chicago	Residential	Construction Worker	SCGIER
SAMPLE	3835-01-B06 (0-1)						
MATRIX	Soil						
DEPTH (feet)	0-1						
pH	7.7						
PID (MU)	--						
<b>VOCs (None Detected)</b>							
<b>SVOCs (mg/kg)</b>							
Anthracene	0.050 J	12,000	--	2,620	23,000	610,000	--
Benzo(a)anthracene	0.25	0.9	1.8	10.9	1.8	170	--
Benzo(a)pyrene	0.32 †	0.09	2.1	11.4	2.1	17	--
Benzo(b)fluoranthene	0.40	0.9	2.1	13.1	2.1	170	--
Benzo(g,h,i)perylene	0.27 J	--	--	4.44	--	--	--
Benzo(k)fluoranthene	0.17	9	--	8.14	9	1,700	--
Butyl benzyl phthalate	0.062 J	930	--	--	930	930	--
Chrysene	0.30	88	--	10.6	88	17,000	--
Dibenz(a,h)anthracene	0.089	0.09	0.42	1.03	0.42	17	--
Fluoranthene	0.55	3,100	--	27.6	3,100	82,000	--
Indeno(1,2,3-cd)pyrene	0.35 J	0.9	1.6	5.77	1.6	170	--
Phenanthrene	0.24	--	--	15.3	--	--	--
Pyrene	0.47	2,300	--	17.9	2,300	61,000	--
<b>Inorganics (mg/kg)</b>							
Antimony	0.37 J	5	--	--	31	82	--
Arsenic	8.0	11.3	13	--	13	61	--
Barium	84	1,500	--	--	5,500	14,000	--
Beryllium	0.75	22	--	--	160	410	--
Boron	7.0	40	--	--	16,000	41,000	--
Cadmium	0.69	5.2	--	--	78	200	--
Calcium	14,000	--	--	--	--	--	--
Chromium	22 †	21	--	--	230	690	--
Cobalt	9.5	20	--	--	4,700	12,000	--
Copper	47	2,900	--	--	2,900	8,200	--
Iron	19,000 †m	15,000	15,900	--	--	--	--
Lead	130 †	107	--	--	400	700	--
Magnesium	9,100	325,000	--	--	--	730,000	--
Manganese	370	630	636	--	1,600	4,100	--
Mercury	0.070	0.89	--	--	10	0.1	--
Nickel	25	100	--	--	1,600	4,100	--
Potassium	1,700	--	--	--	--	--	--
Selenium	0.71	1.3	--	--	390	1,000	--
Silver	0.41	4.4	--	--	390	1,000	--
Sodium	2,900	--	--	--	--	--	--
Thallium	0.96	2.6	--	--	6.3	160	--
Vanadium	26	550	--	--	550	1,400	--
Zinc	150	5,100	--	--	23,000	61,000	--
<b>TCLP Metals (mg/L)</b>							
Barium	0.33 J	--	--	--	--	--	2
Boron	0.093 J	--	--	--	--	--	2
Cadmium	0.0023 J	--	--	--	--	--	0.005
Chromium	ND U	--	--	--	--	--	0.1
Iron	ND U	--	--	--	--	--	5
Lead	ND U	--	--	--	--	--	0.0075
Manganese	1.0 L	--	--	--	--	--	0.15
Nickel	0.010 J	--	--	--	--	--	0.1
Zinc	0.11 J	--	--	--	--	--	5
<b>SPLP Metals (mg/L)</b>							
Manganese	0.76 J L	--	--	--	--	--	0.15



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Dean Tiebout  
WSP USA Inc.  
30 North LaSalle Street  
Chicago, Illinois 60602  
Generated 3/12/2024 12:29:40 PM

## JOB DESCRIPTION

IDOT - 196-002-WO 027A FAI 90/94

## JOB NUMBER

500-246820-1

# 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



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Authorized for release by  
Jim Knapp, Senior Project Manager  
[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 . . . . .	18
Sample Summary . . . . .	19
Client Sample Results . . . . .	20
Definitions . . . . .	68
QC Association . . . . .	69
Surrogate Summary . . . . .	77
QC Sample Results . . . . .	79
Chronicle . . . . .	97
Certification Summary . . . . .	107
Chain of Custody . . . . .	108
Receipt Checklists . . . . .	109

# Case Narrative

Client: WSP USA Inc.  
Project: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Job ID: 500-246820-1**

**Eurofins Chicago**

## Job Narrative 500-246820-1

### Receipt

The samples were received on 02/29/24 16:10. 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 1.7° C.

### GC/MS VOA

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 500-756581 and analytical batch 500-756583 recovered outside control limits for the following analytes: Acetone, Carbon disulfide, Carbon tetrachloride, Trichloroethene and 2-Butanone (MEK). 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 8270E: The continuing calibration verification (CCV) analyzed in batch 500-757621 was outside the method criteria for the following analyte(s): 2,4-Dimethylphenol and 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(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-757614 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], 2,4-Dimethylphenol and 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(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-757614 was outside the method criteria for the following analyte(s): 3,3'-Dichlorobenzidine, Dibenz(a,h)anthracene, Hexachlorobenzene, Hexachlorobutadiene, Indeno[1,2,3-cd]pyrene and 2,4,6-Tribromophenol (Surr). As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following samples were diluted due to the nature of the sample matrix: 3835-01-B05 (0-1) (500-246820-2) and 3835-01-B02 (0-8)D (500-246820-4). Elevated reporting limits (RLs) are provided.

Method 8270E: 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 500-757697 and analytical batch 500-757850 had 1 analyte outside control limits: Bis(2-ethylhexyl) phthalate. These results have been reported and qualified.

Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-757850 was outside the method criteria for the following analytes: 4-Nitrophenol and 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(s) is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-757850 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene, Hexachlorobenzene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: 3835-01-B06 (0-1) (500-246820-1). 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 calibration verification (ICV) result for batch 757072 was below the 90-110% control limit. The affected analyte is: Ag (89%). All batch QC including a low level ICV (ICVL - at the RL) and bracketing CCV were within control limits. Sample results have been reported as qualified data.

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.

Eurofins Chicago

# Case Narrative

Client: WSP USA Inc.  
Project: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Job ID: 500-246820-1 (Continued)**

**Eurofins Chicago**

## Organic Prep

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

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# Detection Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B06 (0-1)**

**Lab Sample ID: 500-246820-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.050	J	0.089	0.018	mg/Kg	2	✳	8270E	Total/NA
Benzo[a]anthracene	0.25		0.089	0.019	mg/Kg	2	✳	8270E	Total/NA
Benzo[a]pyrene	0.32		0.089	0.086	mg/Kg	2	✳	8270E	Total/NA
Benzo[b]fluoranthene	0.40		0.089	0.085	mg/Kg	2	✳	8270E	Total/NA
Benzo[g,h,i]perylene	0.27		0.089	0.019	mg/Kg	2	✳	8270E	Total/NA
Benzo[k]fluoranthene	0.17		0.089	0.034	mg/Kg	2	✳	8270E	Total/NA
Butyl benzyl phthalate	0.062	J	0.45	0.045	mg/Kg	2	✳	8270E	Total/NA
Chrysene	0.30		0.089	0.024	mg/Kg	2	✳	8270E	Total/NA
Dibenz(a,h)anthracene	0.089		0.089	0.089	mg/Kg	2	✳	8270E	Total/NA
Fluoranthene	0.55		0.089	0.021	mg/Kg	2	✳	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.35		0.089	0.087	mg/Kg	2	✳	8270E	Total/NA
Phenanthrene	0.24		0.089	0.020	mg/Kg	2	✳	8270E	Total/NA
Pyrene	0.47		0.089	0.024	mg/Kg	2	✳	8270E	Total/NA
Antimony	0.37	J	1.3	0.25	mg/Kg	1	✳	6010D	Total/NA
Arsenic	8.0		0.64	0.22	mg/Kg	1	✳	6010D	Total/NA
Barium	84		0.64	0.072	mg/Kg	1	✳	6010D	Total/NA
Beryllium	0.75		0.25	0.059	mg/Kg	1	✳	6010D	Total/NA
Boron	7.0		3.2	0.30	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.69	B	0.13	0.023	mg/Kg	1	✳	6010D	Total/NA
Calcium	14000	B	13	2.2	mg/Kg	1	✳	6010D	Total/NA
Chromium	22		0.64	0.31	mg/Kg	1	✳	6010D	Total/NA
Cobalt	9.5		0.32	0.083	mg/Kg	1	✳	6010D	Total/NA
Copper	47		0.64	0.18	mg/Kg	1	✳	6010D	Total/NA
Iron	19000		13	6.6	mg/Kg	1	✳	6010D	Total/NA
Lead	130		0.32	0.15	mg/Kg	1	✳	6010D	Total/NA
Magnesium	9100	B	6.4	3.2	mg/Kg	1	✳	6010D	Total/NA
Manganese	370		0.64	0.092	mg/Kg	1	✳	6010D	Total/NA
Nickel	25		0.64	0.18	mg/Kg	1	✳	6010D	Total/NA
Potassium	1700		32	11	mg/Kg	1	✳	6010D	Total/NA
Selenium	0.71		0.64	0.37	mg/Kg	1	✳	6010D	Total/NA
Silver	0.41		0.32	0.082	mg/Kg	1	✳	6010D	Total/NA
Sodium	2900		64	9.4	mg/Kg	1	✳	6010D	Total/NA
Thallium	0.96		0.64	0.32	mg/Kg	1	✳	6010D	Total/NA
Vanadium	26		0.32	0.075	mg/Kg	1	✳	6010D	Total/NA
Zinc	150		1.3	0.56	mg/Kg	1	✳	6010D	Total/NA
Barium	0.33	J	0.50	0.050	mg/L	1		6010D	TCLP
Boron	0.093	J	0.50	0.050	mg/L	1		6010D	TCLP
Cadmium	0.0023	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Manganese	1.0		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.010	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.11	J	0.50	0.020	mg/L	1		6010D	TCLP
Manganese	0.76	F1	0.025	0.010	mg/L	1		6010D	SPLP East
Mercury	0.070		0.020	0.011	mg/Kg	1	✳	7471B	Total/NA
pH	7.7		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-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (0-8)**

**Lab Sample ID: 500-246820-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Methylnaphthalene	0.056	J	0.077	0.0077	mg/Kg	1	*	*	8270E	Total/NA
Acenaphthene	0.039		0.038	0.0078	mg/Kg	1	*	*	8270E	Total/NA
Acenaphthylene	0.030	J	0.038	0.0065	mg/Kg	1	*	*	8270E	Total/NA
Anthracene	0.25		0.038	0.0078	mg/Kg	1	*	*	8270E	Total/NA
Benzo[a]anthracene	1.2		0.038	0.0081	mg/Kg	1	*	*	8270E	Total/NA
Benzo[a]pyrene	1.1		0.038	0.037	mg/Kg	1	*	*	8270E	Total/NA
Benzo[b]fluoranthene	1.3		0.038	0.037	mg/Kg	1	*	*	8270E	Total/NA
Benzo[g,h,i]perylene	0.58		0.038	0.0083	mg/Kg	1	*	*	8270E	Total/NA
Benzo[k]fluoranthene	0.55		0.038	0.015	mg/Kg	1	*	*	8270E	Total/NA
Butyl benzyl phthalate	0.031	J	0.19	0.019	mg/Kg	1	*	*	8270E	Total/NA
Carbazole	0.060	J	0.19	0.015	mg/Kg	1	*	*	8270E	Total/NA
Chrysene	1.2		0.038	0.010	mg/Kg	1	*	*	8270E	Total/NA
Dibenz(a,h)anthracene	0.25		0.038	0.038	mg/Kg	1	*	*	8270E	Total/NA
Dibenzofuran	0.041	J	0.19	0.014	mg/Kg	1	*	*	8270E	Total/NA
Di-n-butyl phthalate	0.014	J	0.19	0.012	mg/Kg	1	*	*	8270E	Total/NA
Fluoranthene	2.3		0.038	0.0089	mg/Kg	1	*	*	8270E	Total/NA
Fluorene	0.044		0.038	0.011	mg/Kg	1	*	*	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.66		0.038	0.037	mg/Kg	1	*	*	8270E	Total/NA
Naphthalene	0.054		0.038	0.0069	mg/Kg	1	*	*	8270E	Total/NA
Phenanthrene	0.79		0.038	0.0084	mg/Kg	1	*	*	8270E	Total/NA
Pyrene	1.8		0.038	0.010	mg/Kg	1	*	*	8270E	Total/NA
Antimony	0.35	J	1.1	0.21	mg/Kg	1	*	*	6010D	Total/NA
Arsenic	8.8		0.54	0.19	mg/Kg	1	*	*	6010D	Total/NA
Barium	62		0.54	0.062	mg/Kg	1	*	*	6010D	Total/NA
Beryllium	0.75		0.22	0.051	mg/Kg	1	*	*	6010D	Total/NA
Boron	15		2.7	0.25	mg/Kg	1	*	*	6010D	Total/NA
Cadmium	0.59	B	0.11	0.020	mg/Kg	1	*	*	6010D	Total/NA
Calcium	53000	B	54	9.2	mg/Kg	5	*	*	6010D	Total/NA
Chromium	15		0.54	0.27	mg/Kg	1	*	*	6010D	Total/NA
Cobalt	11		0.27	0.071	mg/Kg	1	*	*	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago



# Detection Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Client Sample ID: 3835-01-B03 (0-8) (Continued)

## Lab Sample ID: 500-246820-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	35		0.54	0.15	mg/Kg	1	☼	6010D	Total/NA
Iron	24000		11	5.7	mg/Kg	1	☼	6010D	Total/NA
Lead	56		0.27	0.13	mg/Kg	1	☼	6010D	Total/NA
Magnesium	21000	B	5.4	2.7	mg/Kg	1	☼	6010D	Total/NA
Manganese	350		0.54	0.079	mg/Kg	1	☼	6010D	Total/NA
Nickel	27		0.54	0.16	mg/Kg	1	☼	6010D	Total/NA
Potassium	2300		27	9.6	mg/Kg	1	☼	6010D	Total/NA
Selenium	0.50	J	0.54	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	0.62	J	1.4	0.35	mg/Kg	5	☼	6010D	Total/NA
Sodium	880		54	8.1	mg/Kg	1	☼	6010D	Total/NA
Thallium	0.83		0.54	0.27	mg/Kg	1	☼	6010D	Total/NA
Vanadium	19		0.27	0.064	mg/Kg	1	☼	6010D	Total/NA
Zinc	88		1.1	0.48	mg/Kg	1	☼	6010D	Total/NA
Barium	0.50		0.50	0.050	mg/L	1		6010D	TCLP
Boron	0.079	J	0.50	0.050	mg/L	1		6010D	TCLP
Cadmium	0.0035	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Manganese	0.75		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.016	J	0.025	0.010	mg/L	1		6010D	TCLP
Zinc	0.059	J	0.50	0.020	mg/L	1		6010D	TCLP
Manganese	0.54		0.025	0.010	mg/L	1		6010D	SPLP East
Mercury	0.080		0.018	0.0097	mg/Kg	1	☼	7471B	Total/NA
pH	8.4		0.2	0.2	SU	1		9045D	Total/NA

## Client Sample ID: 3835-01-B03 (8-15)

## Lab Sample ID: 500-246820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0099	J*+	0.017	0.0074	mg/Kg	1	☼	8260D	Total/NA
2-Methylnaphthalene	0.044	J	0.077	0.0076	mg/Kg	1	☼	8270E	Total/NA
Acenaphthene	0.037	J	0.038	0.0077	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.12		0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.31		0.038	0.0081	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.33		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.38		0.038	0.036	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.23		0.038	0.0082	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.17		0.038	0.014	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.035	J	0.19	0.015	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.35		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.038		0.038	0.038	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.048	J	0.19	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.71		0.038	0.0088	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.058		0.038	0.011	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.038	0.037	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.056		0.038	0.0069	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.52		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.64		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Antimony	0.23	J	1.1	0.22	mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.4		0.56	0.19	mg/Kg	1	☼	6010D	Total/NA
Barium	150		0.56	0.064	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.86		0.22	0.052	mg/Kg	1	☼	6010D	Total/NA
Boron	15		2.8	0.26	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.50	B	0.11	0.020	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Client Sample ID: 3835-01-B03 (8-15) (Continued)

## Lab Sample ID: 500-246820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	57000	B	56	9.5	mg/Kg	5	✳	6010D	Total/NA
Chromium	18		0.56	0.28	mg/Kg	1	✳	6010D	Total/NA
Cobalt	12		0.28	0.073	mg/Kg	1	✳	6010D	Total/NA
Copper	27		0.56	0.16	mg/Kg	1	✳	6010D	Total/NA
Iron	19000		11	5.8	mg/Kg	1	✳	6010D	Total/NA
Lead	180		0.28	0.13	mg/Kg	1	✳	6010D	Total/NA
Magnesium	22000	B	5.6	2.8	mg/Kg	1	✳	6010D	Total/NA
Manganese	460		0.56	0.081	mg/Kg	1	✳	6010D	Total/NA
Nickel	29		0.56	0.16	mg/Kg	1	✳	6010D	Total/NA
Potassium	2900		28	9.9	mg/Kg	1	✳	6010D	Total/NA
Silver	0.48	J	1.4	0.36	mg/Kg	5	✳	6010D	Total/NA
Sodium	940		56	8.3	mg/Kg	1	✳	6010D	Total/NA
Thallium	1.2		0.56	0.28	mg/Kg	1	✳	6010D	Total/NA
Vanadium	23		0.28	0.066	mg/Kg	1	✳	6010D	Total/NA
Zinc	140		1.1	0.49	mg/Kg	1	✳	6010D	Total/NA
Barium	0.36	J	0.50	0.050	mg/L	1		6010D	TCLP
Boron	0.22	J	0.50	0.050	mg/L	1		6010D	TCLP
Cadmium	0.0031	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Cobalt	0.042		0.025	0.010	mg/L	1		6010D	TCLP
Iron	0.30	J	0.40	0.20	mg/L	1		6010D	TCLP
Lead	3.1		0.0075	0.0075	mg/L	1		6010D	TCLP
Manganese	5.9		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.042		0.025	0.010	mg/L	1		6010D	TCLP
Zinc	2.4		0.50	0.020	mg/L	1		6010D	TCLP
Manganese	0.050		0.025	0.010	mg/L	1		6010D	SPLP East
Mercury	0.043		0.019	0.0099	mg/Kg	1	✳	7471B	Total/NA
pH	7.7		0.2	0.2	SU	1		9045D	Total/NA

## Client Sample ID: 3835-01-B03 (15-22)

## Lab Sample ID: 500-246820-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.011	J**	0.015	0.0066	mg/Kg	1	✳	8260D	Total/NA
Benzo[a]anthracene	0.023	J	0.041	0.0087	mg/Kg	1	✳	8270E	Total/NA
Chrysene	0.022	J	0.041	0.011	mg/Kg	1	✳	8270E	Total/NA
Fluoranthene	0.041		0.041	0.0095	mg/Kg	1	✳	8270E	Total/NA
Phenanthrene	0.031	J	0.041	0.0089	mg/Kg	1	✳	8270E	Total/NA
Pyrene	0.034	J	0.041	0.011	mg/Kg	1	✳	8270E	Total/NA
Antimony	0.23	J	1.2	0.23	mg/Kg	1	✳	6010D	Total/NA
Arsenic	6.6		0.59	0.20	mg/Kg	1	✳	6010D	Total/NA
Barium	75		0.59	0.068	mg/Kg	1	✳	6010D	Total/NA
Beryllium	0.93		0.24	0.055	mg/Kg	1	✳	6010D	Total/NA
Boron	13		3.0	0.28	mg/Kg	1	✳	6010D	Total/NA
Cadmium	0.29	B	0.12	0.021	mg/Kg	1	✳	6010D	Total/NA
Calcium	27000	B	12	2.0	mg/Kg	1	✳	6010D	Total/NA
Chromium	20		0.59	0.29	mg/Kg	1	✳	6010D	Total/NA
Cobalt	15		0.30	0.078	mg/Kg	1	✳	6010D	Total/NA
Copper	28		0.59	0.17	mg/Kg	1	✳	6010D	Total/NA
Iron	21000		12	6.2	mg/Kg	1	✳	6010D	Total/NA
Lead	33		0.30	0.14	mg/Kg	1	✳	6010D	Total/NA
Magnesium	17000	B	5.9	2.9	mg/Kg	1	✳	6010D	Total/NA
Manganese	320		0.59	0.086	mg/Kg	1	✳	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Detection Summary

Client: WSP USA Inc.

Job ID: 500-246820-1

Project/Site: IDOT - 196-002-WO 027A FAI 90/94

**Client Sample ID: 3835-01-B03 (15-22) (Continued)**

**Lab Sample ID: 500-246820-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	36		0.59	0.17	mg/Kg	1	☼	6010D	Total/NA
Potassium	3200		30	11	mg/Kg	1	☼	6010D	Total/NA
Silver	0.11	J	0.30	0.077	mg/Kg	1	☼	6010D	Total/NA
Sodium	180		59	8.8	mg/Kg	1	☼	6010D	Total/NA
Thallium	0.80		0.59	0.30	mg/Kg	1	☼	6010D	Total/NA
Vanadium	25		0.30	0.070	mg/Kg	1	☼	6010D	Total/NA
Zinc	66		1.2	0.52	mg/Kg	1	☼	6010D	Total/NA
Barium	0.46	J	0.50	0.050	mg/L	1		6010D	TCLP
Boron	0.094	J	0.50	0.050	mg/L	1		6010D	TCLP
Cobalt	0.026		0.025	0.010	mg/L	1		6010D	TCLP
Lead	0.0083		0.0075	0.0075	mg/L	1		6010D	TCLP
Manganese	3.5		0.025	0.010	mg/L	1		6010D	TCLP
Nickel	0.027		0.025	0.010	mg/L	1		6010D	TCLP
Manganese	0.019	J	0.025	0.010	mg/L	1		6010D	SPLP East
Mercury	0.031		0.020	0.011	mg/Kg	1	☼	7471B	Total/NA
pH	7.7		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-WO 027A FAI 90/94

Job ID: 500-246820-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-246820-1	3835-01-B06 (0-1)	Solid	02/29/24 09:45	02/29/24 16:10
500-246820-7	3835-01-B03 (0-8)	Solid	02/29/24 11:50	02/29/24 16:10
500-246820-8	3835-01-B03 (8-15)	Solid	02/29/24 12:05	02/29/24 16:10
500-246820-9	3835-01-B03 (15-22)	Solid	02/29/24 12:35	02/29/24 16:10

- 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-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B06 (0-1)**

**Lab Sample ID: 500-246820-1**

**Date Collected: 02/29/24 09:45**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

**Percent Solids: 73.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.018	*+	0.018	0.0077	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Benzene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Bromodichloromethane	<0.0018		0.0018	0.00036	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Bromoform	<0.0018		0.0018	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Bromomethane	<0.0044		0.0044	0.0017	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
2-Butanone (MEK)	<0.0044	*+	0.0044	0.0020	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Carbon disulfide	<0.0044	*+	0.0044	0.00092	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Carbon tetrachloride	<0.0018	*+	0.0018	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Chlorobenzene	<0.0018		0.0018	0.00066	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Chloroethane	<0.0044		0.0044	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Chloroform	<0.0018		0.0018	0.00062	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Chloromethane	<0.0044		0.0044	0.0018	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
cis-1,2-Dichloroethene	<0.0018		0.0018	0.00050	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
cis-1,3-Dichloropropene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Dibromochloromethane	<0.0018		0.0018	0.00058	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,1-Dichloroethane	<0.0018		0.0018	0.00061	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,2-Dichloroethane	<0.0044		0.0044	0.0014	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,1-Dichloroethene	<0.0018		0.0018	0.00061	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,2-Dichloropropane	<0.0018		0.0018	0.00046	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,3-Dichloropropane, Total	<0.0018		0.0018	0.00062	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Ethylbenzene	<0.0018		0.0018	0.00085	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
2-Hexanone	<0.0044		0.0044	0.0014	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Methylene Chloride	<0.0044		0.0044	0.0017	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
4-Methyl-2-pentanone (MIBK)	<0.0044		0.0044	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Methyl tert-butyl ether	<0.0018		0.0018	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Styrene	<0.0018		0.0018	0.00054	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,1,2,2-Tetrachloroethane	<0.0018		0.0018	0.00057	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Tetrachloroethene	<0.0018		0.0018	0.00060	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Toluene	<0.0018		0.0018	0.00045	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
trans-1,2-Dichloroethene	<0.0018		0.0018	0.00079	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
trans-1,3-Dichloropropene	<0.0018		0.0018	0.00062	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,1,1-Trichloroethane	<0.0018		0.0018	0.00060	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
1,1,2-Trichloroethane	<0.0018		0.0018	0.00076	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Trichloroethene	<0.0018	*+	0.0018	0.00060	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Vinyl acetate	<0.0044		0.0044	0.0015	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Vinyl chloride	<0.0018		0.0018	0.00079	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1
Xylenes, Total	<0.0036		0.0036	0.00057	mg/Kg	☼	02/29/24 18:31	03/02/24 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 131	02/29/24 18:31	03/02/24 18:09	1
Dibromofluoromethane	112		75 - 126	02/29/24 18:31	03/02/24 18:09	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/29/24 18:31	03/02/24 18:09	1
Toluene-d8 (Surr)	102		75 - 124	02/29/24 18:31	03/02/24 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.45		0.45	0.064	mg/Kg	☼	03/11/24 14:40	03/12/24 10:47	2
1,2-Dichlorobenzene	<0.45		0.45	0.036	mg/Kg	☼	03/11/24 14:40	03/12/24 10:47	2
1,3-Dichlorobenzene	<0.45		0.45	0.041	mg/Kg	☼	03/11/24 14:40	03/12/24 10:47	2
1,4-Dichlorobenzene	<0.45		0.45	0.042	mg/Kg	☼	03/11/24 14:40	03/12/24 10:47	2

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B06 (0-1)**

**Lab Sample ID: 500-246820-1**

**Date Collected: 02/29/24 09:45**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

**Percent Solids: 73.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.45		0.45	0.064	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2,4,5-Trichlorophenol	<0.89		0.89	0.034	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2,4,6-Trichlorophenol	<0.89		0.89	0.031	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2,4-Dichlorophenol	<0.89		0.89	0.032	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2,4-Dimethylphenol	<0.89		0.89	0.20	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2,4-Dinitrophenol	<1.8		1.8	0.52	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2,4-Dinitrotoluene	<0.45		0.45	0.051	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2,6-Dinitrotoluene	<0.45		0.45	0.031	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2-Chloronaphthalene	<0.45		0.45	0.033	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2-Chlorophenol	<0.45		0.45	0.029	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2-Methylnaphthalene	<0.18		0.18	0.018	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2-Methylphenol	<0.45		0.45	0.047	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2-Nitroaniline	<0.45		0.45	0.048	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
2-Nitrophenol	<0.89		0.89	0.061	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
3 & 4 Methylphenol	<0.45		0.45	0.066	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
3,3'-Dichlorobenzidine	<0.45		0.45	0.073	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
3-Nitroaniline	<0.89		0.89	0.041	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
4,6-Dinitro-2-methylphenol	<1.8		1.8	0.51	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
4-Bromophenyl phenyl ether	<0.45		0.45	0.061	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
4-Chloro-3-methylphenol	<0.89		0.89	0.035	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
4-Chloroaniline	<1.8		1.8	0.94	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
4-Chlorophenyl phenyl ether	<0.45		0.45	0.12	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
4-Nitroaniline	<0.89		0.89	0.066	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
4-Nitrophenol	<1.8		1.8	0.33	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Acenaphthene	<0.089		0.089	0.018	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Acenaphthylene	<0.089		0.089	0.015	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Anthracene</b>	<b>0.050</b>	<b>J</b>	0.089	0.018	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Benzo[a]anthracene</b>	<b>0.25</b>		0.089	0.019	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Benzo[a]pyrene</b>	<b>0.32</b>		0.089	0.086	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Benzo[b]fluoranthene</b>	<b>0.40</b>		0.089	0.085	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Benzo[g,h,i]perylene</b>	<b>0.27</b>		0.089	0.019	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Benzo[k]fluoranthene</b>	<b>0.17</b>		0.089	0.034	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Bis(2-chloroethoxy)methane	<0.45		0.45	0.033	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Bis(2-chloroethyl)ether	<0.45		0.45	0.041	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Bis(2-ethylhexyl) phthalate	<0.45	*-	0.45	0.35	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Butyl benzyl phthalate</b>	<b>0.062</b>	<b>J</b>	0.45	0.045	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Carbazole	<0.45		0.45	0.035	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Chrysene</b>	<b>0.30</b>		0.089	0.024	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Dibenz(a,h)anthracene</b>	<b>0.089</b>		0.089	0.089	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Dibenzofuran	<0.45		0.45	0.032	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Diethyl phthalate	<0.45		0.45	0.041	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Dimethyl phthalate	<0.45		0.45	0.019	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Di-n-butyl phthalate	<0.45		0.45	0.028	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Di-n-octyl phthalate	<0.89		0.89	0.63	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Fluoranthene</b>	<b>0.55</b>		0.089	0.021	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Fluorene	<0.089		0.089	0.027	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Hexachlorobenzene	<0.18		0.18	0.017	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Hexachlorobutadiene	<0.45		0.45	0.051	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Hexachlorocyclopentadiene	<1.8		1.8	0.95	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B06 (0-1)**

**Lab Sample ID: 500-246820-1**

Date Collected: 02/29/24 09:45

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.45		0.45	0.045	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.35</b>		0.089	0.087	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Isophorone	<0.45		0.45	0.046	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Naphthalene	<0.089		0.089	0.016	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Nitrobenzene	<0.089		0.089	0.028	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
N-Nitrosodi-n-propylamine	<0.18		0.18	0.018	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
N-Nitrosodiphenylamine	<0.45		0.45	0.053	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Pentachlorophenol	<1.8		1.8	0.22	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Phenanthrene</b>	<b>0.24</b>		0.089	0.020	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
Phenol	<0.45		0.45	0.039	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2
<b>Pyrene</b>	<b>0.47</b>		0.089	0.024	mg/Kg	☆	03/11/24 14:40	03/12/24 10:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	53		31 - 166	03/11/24 14:40	03/12/24 10:47	2
Phenol-d5 (Surr)	55		30 - 153	03/11/24 14:40	03/12/24 10:47	2
Nitrobenzene-d5 (Surr)	49		37 - 147	03/11/24 14:40	03/12/24 10:47	2
2-Fluorobiphenyl (Surr)	57		43 - 145	03/11/24 14:40	03/12/24 10:47	2
2,4,6-Tribromophenol (Surr)	77		31 - 143	03/11/24 14:40	03/12/24 10:47	2
Terphenyl-d14 (Surr)	69		42 - 157	03/11/24 14:40	03/12/24 10:47	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.37</b>	<b>J</b>	1.3	0.25	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Arsenic</b>	<b>8.0</b>		0.64	0.22	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Barium</b>	<b>84</b>		0.64	0.072	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Beryllium</b>	<b>0.75</b>		0.25	0.059	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Boron</b>	<b>7.0</b>		3.2	0.30	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Cadmium</b>	<b>0.69</b>	<b>B</b>	0.13	0.023	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Calcium</b>	<b>14000</b>	<b>B</b>	13	2.2	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Chromium</b>	<b>22</b>		0.64	0.31	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Cobalt</b>	<b>9.5</b>		0.32	0.083	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Copper</b>	<b>47</b>		0.64	0.18	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Iron</b>	<b>19000</b>		13	6.6	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Lead</b>	<b>130</b>		0.32	0.15	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Magnesium</b>	<b>9100</b>	<b>B</b>	6.4	3.2	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Manganese</b>	<b>370</b>		0.64	0.092	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Nickel</b>	<b>25</b>		0.64	0.18	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Potassium</b>	<b>1700</b>		32	11	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Selenium</b>	<b>0.71</b>		0.64	0.37	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Silver</b>	<b>0.41</b>		0.32	0.082	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Sodium</b>	<b>2900</b>		64	9.4	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Thallium</b>	<b>0.96</b>		0.64	0.32	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Vanadium</b>	<b>26</b>		0.32	0.075	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1
<b>Zinc</b>	<b>150</b>		1.3	0.56	mg/Kg	☆	03/06/24 10:00	03/07/24 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.33</b>	<b>J</b>	0.50	0.050	mg/L		03/04/24 09:13	03/06/24 03:45	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/24 09:13	03/06/24 03:45	1
<b>Boron</b>	<b>0.093</b>	<b>J</b>	0.50	0.050	mg/L		03/04/24 09:13	03/06/24 03:45	1

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B06 (0-1)**

**Lab Sample ID: 500-246820-1**

Date Collected: 02/29/24 09:45

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 73.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cadmium</b>	<b>0.0023</b>	<b>J</b>	0.0050	0.0020	mg/L		03/04/24 09:13	03/06/24 03:45	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 03:45	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 03:45	1
Iron	<0.40		0.40	0.20	mg/L		03/04/24 09:13	03/06/24 03:45	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/24 09:13	03/06/24 03:45	1
<b>Manganese</b>	<b>1.0</b>		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 03:45	1
<b>Nickel</b>	<b>0.010</b>	<b>J</b>	0.025	0.010	mg/L		03/04/24 09:13	03/06/24 03:45	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/24 09:13	03/06/24 03:45	1
Silver	<0.025	^1-	0.025	0.010	mg/L		03/04/24 09:13	03/06/24 03:45	1
<b>Zinc</b>	<b>0.11</b>	<b>J</b>	0.50	0.020	mg/L		03/04/24 09:13	03/06/24 03:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.76</b>	<b>F1</b>	0.025	0.010	mg/L		03/04/24 09:06	03/05/24 19:56	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		03/04/24 09:13	03/06/24 01:49	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/04/24 09:13	03/06/24 01:49	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		03/05/24 10:40	03/06/24 09:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.070</b>		0.020	0.011	mg/Kg	☆	03/05/24 15:35	03/06/24 09:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>7.7</b>		0.2	0.2	SU			03/06/24 10:20	1



# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (0-8)**

**Lab Sample ID: 500-246820-7**

**Date Collected: 02/29/24 11:50**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

**Percent Solids: 86.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.016	*+	0.016	0.0071	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Benzene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Bromodichloromethane	<0.0016		0.0016	0.00033	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Bromoform	<0.0016		0.0016	0.00047	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Bromomethane	<0.0041		0.0041	0.0015	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
2-Butanone (MEK)	<0.0041	*+	0.0041	0.0018	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Carbon disulfide	<0.0041	*+	0.0041	0.00084	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Carbon tetrachloride	<0.0016	*+	0.0016	0.00047	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Chlorobenzene	<0.0016		0.0016	0.00060	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Chloroethane	<0.0041		0.0041	0.0012	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Chloroform	<0.0016		0.0016	0.00056	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Chloromethane	<0.0041		0.0041	0.0016	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
cis-1,2-Dichloroethene	<0.0016		0.0016	0.00045	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
cis-1,3-Dichloropropene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Dibromochloromethane	<0.0016		0.0016	0.00053	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,1-Dichloroethane	<0.0016		0.0016	0.00056	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,2-Dichloroethane	<0.0041		0.0041	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,1-Dichloroethene	<0.0016		0.0016	0.00056	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,2-Dichloropropane	<0.0016		0.0016	0.00042	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,3-Dichloropropane, Total	<0.0016		0.0016	0.00057	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Ethylbenzene	<0.0016		0.0016	0.00078	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
2-Hexanone	<0.0041		0.0041	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Methylene Chloride	<0.0041		0.0041	0.0016	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
4-Methyl-2-pentanone (MIBK)	<0.0041		0.0041	0.0012	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Methyl tert-butyl ether	<0.0016		0.0016	0.00048	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Styrene	<0.0016		0.0016	0.00049	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,1,2,2-Tetrachloroethane	<0.0016		0.0016	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Tetrachloroethene	<0.0016		0.0016	0.00055	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Toluene	<0.0016		0.0016	0.00041	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
trans-1,2-Dichloroethene	<0.0016		0.0016	0.00072	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
trans-1,3-Dichloropropene	<0.0016		0.0016	0.00057	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,1,1-Trichloroethane	<0.0016		0.0016	0.00055	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
1,1,2-Trichloroethane	<0.0016		0.0016	0.00070	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Trichloroethene	<0.0016	*+	0.0016	0.00055	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Vinyl acetate	<0.0041		0.0041	0.0014	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Vinyl chloride	<0.0016		0.0016	0.00072	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1
Xylenes, Total	<0.0032		0.0032	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		75 - 131	02/29/24 18:31	03/02/24 20:37	1
Dibromofluoromethane	112		75 - 126	02/29/24 18:31	03/02/24 20:37	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/29/24 18:31	03/02/24 20:37	1
Toluene-d8 (Surr)	112		75 - 124	02/29/24 18:31	03/02/24 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
1,2-Dichlorobenzene	<0.19		0.19	0.016	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (0-8)**

**Lab Sample ID: 500-246820-7**

Date Collected: 02/29/24 11:50

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.028	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2,4-Dichlorophenol	<0.38		0.38	0.014	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2,4-Dimethylphenol	<0.38		0.38	0.086	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>2-Methylnaphthalene</b>	<b>0.056</b>	<b>J</b>	0.077	0.0077	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2-Nitroaniline	<0.19		0.19	0.021	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.22	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Acenaphthene</b>	<b>0.039</b>		0.038	0.0078	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Acenaphthylene</b>	<b>0.030</b>	<b>J</b>	0.038	0.0065	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Anthracene</b>	<b>0.25</b>		0.038	0.0078	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Benzo[a]anthracene</b>	<b>1.2</b>		0.038	0.0081	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Benzo[a]pyrene</b>	<b>1.1</b>		0.038	0.037	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Benzo[b]fluoranthene</b>	<b>1.3</b>		0.038	0.037	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Benzo[g,h,i]perylene</b>	<b>0.58</b>		0.038	0.0083	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Benzo[k]fluoranthene</b>	<b>0.55</b>		0.038	0.015	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Butyl benzyl phthalate</b>	<b>0.031</b>	<b>J</b>	0.19	0.019	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Carbazole</b>	<b>0.060</b>	<b>J</b>	0.19	0.015	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Chrysene</b>	<b>1.2</b>		0.038	0.010	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Dibenz(a,h)anthracene</b>	<b>0.25</b>		0.038	0.038	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Dibenzofuran</b>	<b>0.041</b>	<b>J</b>	0.19	0.014	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Diethyl phthalate	<0.19		0.19	0.018	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Di-n-butyl phthalate</b>	<b>0.014</b>	<b>J</b>	0.19	0.012	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Fluoranthene</b>	<b>2.3</b>		0.038	0.0089	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
<b>Fluorene</b>	<b>0.044</b>		0.038	0.011	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Hexachlorobenzene	<0.077		0.077	0.0074	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Hexachlorobutadiene	<0.19		0.19	0.022	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1
Hexachlorocyclopentadiene	<0.77		0.77	0.41	mg/Kg	☼	03/10/24 12:40	03/11/24 12:23	1

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (0-8)**

**Lab Sample ID: 500-246820-7**

Date Collected: 02/29/24 11:50

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.66</b>		0.038	0.037	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
Isophorone	<0.19		0.19	0.020	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
<b>Naphthalene</b>	<b>0.054</b>		0.038	0.0069	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0076	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
Pentachlorophenol	<0.77		0.77	0.096	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
<b>Phenanthrene</b>	<b>0.79</b>		0.038	0.0084	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
Phenol	<0.19		0.19	0.017	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1
<b>Pyrene</b>	<b>1.8</b>		0.038	0.010	mg/Kg	☆	03/10/24 12:40	03/11/24 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	53		31 - 166	03/10/24 12:40	03/11/24 12:23	1
Phenol-d5 (Surr)	52		30 - 153	03/10/24 12:40	03/11/24 12:23	1
Nitrobenzene-d5 (Surr)	56		37 - 147	03/10/24 12:40	03/11/24 12:23	1
2-Fluorobiphenyl (Surr)	63		43 - 145	03/10/24 12:40	03/11/24 12:23	1
2,4,6-Tribromophenol (Surr)	79		31 - 143	03/10/24 12:40	03/11/24 12:23	1
Terphenyl-d14 (Surr)	69		42 - 157	03/10/24 12:40	03/11/24 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.35</b>	<b>J</b>	1.1	0.21	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Arsenic</b>	<b>8.8</b>		0.54	0.19	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Barium</b>	<b>62</b>		0.54	0.062	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Beryllium</b>	<b>0.75</b>		0.22	0.051	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Boron</b>	<b>15</b>		2.7	0.25	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Cadmium</b>	<b>0.59</b>	<b>B</b>	0.11	0.020	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Calcium</b>	<b>53000</b>	<b>B</b>	54	9.2	mg/Kg	☆	03/06/24 10:00	03/08/24 01:05	5
<b>Chromium</b>	<b>15</b>		0.54	0.27	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Cobalt</b>	<b>11</b>		0.27	0.071	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Copper</b>	<b>35</b>		0.54	0.15	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Iron</b>	<b>24000</b>		11	5.7	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Lead</b>	<b>56</b>		0.27	0.13	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Magnesium</b>	<b>21000</b>	<b>B</b>	5.4	2.7	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Manganese</b>	<b>350</b>		0.54	0.079	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Nickel</b>	<b>27</b>		0.54	0.16	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Potassium</b>	<b>2300</b>		27	9.6	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Selenium</b>	<b>0.50</b>	<b>J</b>	0.54	0.32	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Silver</b>	<b>0.62</b>	<b>J</b>	1.4	0.35	mg/Kg	☆	03/06/24 10:00	03/08/24 01:05	5
<b>Sodium</b>	<b>880</b>		54	8.1	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Thallium</b>	<b>0.83</b>		0.54	0.27	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Vanadium</b>	<b>19</b>		0.27	0.064	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1
<b>Zinc</b>	<b>88</b>		1.1	0.48	mg/Kg	☆	03/06/24 10:00	03/07/24 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.50</b>		0.50	0.050	mg/L		03/04/24 09:13	03/06/24 04:21	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/24 09:13	03/06/24 04:21	1
<b>Boron</b>	<b>0.079</b>	<b>J</b>	0.50	0.050	mg/L		03/04/24 09:13	03/06/24 04:21	1

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# Client Sample Results

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (0-8)**

**Lab Sample ID: 500-246820-7**

Date Collected: 02/29/24 11:50

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 86.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cadmium</b>	<b>0.0035</b>	<b>J</b>	0.0050	0.0020	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
Chromium	<0.025		0.025	0.010	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
Cobalt	<0.025		0.025	0.010	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
Iron	<0.40		0.40	0.20	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
Lead	<0.0075		0.0075	0.0075	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
<b>Manganese</b>	<b>0.75</b>		0.025	0.010	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
<b>Nickel</b>	<b>0.016</b>	<b>J</b>	0.025	0.010	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
Selenium	<0.050		0.050	0.020	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
Silver	<0.025	^1-	0.025	0.010	mg/L	-	03/04/24 09:13	03/06/24 04:21	1
<b>Zinc</b>	<b>0.059</b>	<b>J</b>	0.50	0.020	mg/L	-	03/04/24 09:13	03/06/24 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Manganese</b>	<b>0.54</b>		0.025	0.010	mg/L	-	03/04/24 09:06	03/05/24 20:42	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	-	03/04/24 09:13	03/06/24 02:10	1
Thallium	<0.0020		0.0020	0.0020	mg/L	-	03/04/24 09:13	03/06/24 02:10	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	-	03/05/24 10:40	03/06/24 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.080</b>		0.018	0.0097	mg/Kg	☆	03/05/24 15:35	03/06/24 09:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>8.4</b>		0.2	0.2	SU	-		03/06/24 12:07	1

# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (8-15)**

**Lab Sample ID: 500-246820-8**

Date Collected: 02/29/24 12:05

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0099	J**	0.017	0.0074	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Benzene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Bromodichloromethane	<0.0017		0.0017	0.00035	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Bromoform	<0.0017		0.0017	0.00050	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Bromomethane	<0.0042		0.0042	0.0016	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
2-Butanone (MEK)	<0.0042	*+	0.0042	0.0019	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Carbon disulfide	<0.0042	*+	0.0042	0.00088	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Carbon tetrachloride	<0.0017	*+	0.0017	0.00049	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Chlorobenzene	<0.0017		0.0017	0.00063	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Chloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Chloroform	<0.0017		0.0017	0.00059	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Chloromethane	<0.0042		0.0042	0.0017	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
cis-1,3-Dichloropropene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Dibromochloromethane	<0.0017		0.0017	0.00056	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,1-Dichloroethane	<0.0017		0.0017	0.00058	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,2-Dichloroethane	<0.0042		0.0042	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,1-Dichloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,2-Dichloropropane	<0.0017		0.0017	0.00044	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,3-Dichloropropane, Total	<0.0017		0.0017	0.00060	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Ethylbenzene	<0.0017		0.0017	0.00081	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
2-Hexanone	<0.0042		0.0042	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Methylene Chloride	<0.0042		0.0042	0.0017	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
4-Methyl-2-pentanone (MIBK)	<0.0042		0.0042	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00050	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Styrene	<0.0017		0.0017	0.00051	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,1,2,2-Tetrachloroethane	<0.0017		0.0017	0.00054	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Tetrachloroethene	<0.0017		0.0017	0.00058	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Toluene	<0.0017		0.0017	0.00043	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00075	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
trans-1,3-Dichloropropene	<0.0017		0.0017	0.00060	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,1,1-Trichloroethane	<0.0017		0.0017	0.00057	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00073	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Trichloroethene	<0.0017	*+	0.0017	0.00057	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Vinyl acetate	<0.0042		0.0042	0.0015	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Vinyl chloride	<0.0017		0.0017	0.00075	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1
Xylenes, Total	<0.0034		0.0034	0.00054	mg/Kg	☼	02/29/24 18:31	03/02/24 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 131	02/29/24 18:31	03/02/24 21:01	1
Dibromofluoromethane	110		75 - 126	02/29/24 18:31	03/02/24 21:01	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 134	02/29/24 18:31	03/02/24 21:01	1
Toluene-d8 (Surr)	106		75 - 124	02/29/24 18:31	03/02/24 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		0.19	0.027	mg/Kg	☼	03/10/24 12:40	03/11/24 13:08	1
1,2-Dichlorobenzene	<0.19		0.19	0.015	mg/Kg	☼	03/10/24 12:40	03/11/24 13:08	1
1,3-Dichlorobenzene	<0.19		0.19	0.017	mg/Kg	☼	03/10/24 12:40	03/11/24 13:08	1
1,4-Dichlorobenzene	<0.19		0.19	0.018	mg/Kg	☼	03/10/24 12:40	03/11/24 13:08	1

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (8-15)**

**Lab Sample ID: 500-246820-8**

**Date Collected: 02/29/24 12:05**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

**Percent Solids: 82.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.19		0.19	0.027	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2,4,5-Trichlorophenol	<0.38		0.38	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2,4,6-Trichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2,4-Dichlorophenol	<0.38		0.38	0.013	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2,4-Dimethylphenol	<0.38		0.38	0.085	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2,4-Dinitrophenol	<0.77		0.77	0.22	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2,4-Dinitrotoluene	<0.19		0.19	0.022	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2,6-Dinitrotoluene	<0.19		0.19	0.013	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2-Chloronaphthalene	<0.19		0.19	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2-Chlorophenol	<0.19		0.19	0.012	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>2-Methylnaphthalene</b>	<b>0.044</b>	<b>J</b>	0.077	0.0076	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2-Methylphenol	<0.19		0.19	0.020	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2-Nitroaniline	<0.19		0.19	0.020	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
2-Nitrophenol	<0.38		0.38	0.026	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
3 & 4 Methylphenol	<0.19		0.19	0.028	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
3,3'-Dichlorobenzidine	<0.19		0.19	0.031	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
3-Nitroaniline	<0.38		0.38	0.017	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
4,6-Dinitro-2-methylphenol	<0.77		0.77	0.21	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
4-Bromophenyl phenyl ether	<0.19		0.19	0.026	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
4-Chloro-3-methylphenol	<0.38		0.38	0.015	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
4-Chloroaniline	<0.77		0.77	0.40	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
4-Chlorophenyl phenyl ether	<0.19		0.19	0.050	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
4-Nitroaniline	<0.38		0.38	0.028	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
4-Nitrophenol	<0.77		0.77	0.14	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Acenaphthene</b>	<b>0.037</b>	<b>J</b>	0.038	0.0077	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Acenaphthylene	<0.038		0.038	0.0065	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Anthracene</b>	<b>0.12</b>		0.038	0.0078	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Benzo[a]anthracene</b>	<b>0.31</b>		0.038	0.0081	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Benzo[a]pyrene</b>	<b>0.33</b>		0.038	0.037	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Benzo[b]fluoranthene</b>	<b>0.38</b>		0.038	0.036	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Benzo[g,h,i]perylene</b>	<b>0.23</b>		0.038	0.0082	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Benzo[k]fluoranthene</b>	<b>0.17</b>		0.038	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Bis(2-chloroethoxy)methane	<0.19		0.19	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Bis(2-chloroethyl)ether	<0.19		0.19	0.018	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Bis(2-ethylhexyl) phthalate	<0.19		0.19	0.15	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Butyl benzyl phthalate	<0.19		0.19	0.019	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Carbazole</b>	<b>0.035</b>	<b>J</b>	0.19	0.015	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Chrysene</b>	<b>0.35</b>		0.038	0.010	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Dibenz(a,h)anthracene</b>	<b>0.038</b>		0.038	0.038	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Dibenzofuran</b>	<b>0.048</b>	<b>J</b>	0.19	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Diethyl phthalate	<0.19		0.19	0.017	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Dimethyl phthalate	<0.19		0.19	0.0083	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Di-n-butyl phthalate	<0.19		0.19	0.012	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Di-n-octyl phthalate	<0.38		0.38	0.27	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Fluoranthene</b>	<b>0.71</b>		0.038	0.0088	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
<b>Fluorene</b>	<b>0.058</b>		0.038	0.011	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Hexachlorobenzene	<0.077		0.077	0.0073	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Hexachlorobutadiene	<0.19		0.19	0.021	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1
Hexachlorocyclopentadiene	<0.77		0.77	0.40	mg/Kg	☆	03/10/24 12:40	03/11/24 13:08	1

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (8-15)**

**Lab Sample ID: 500-246820-8**

Date Collected: 02/29/24 12:05

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.19		0.19	0.019	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.22</b>		0.038	0.037	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
Isophorone	<0.19		0.19	0.020	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
<b>Naphthalene</b>	<b>0.056</b>		0.038	0.0069	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
Nitrobenzene	<0.038		0.038	0.012	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
N-Nitrosodi-n-propylamine	<0.077		0.077	0.0075	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
N-Nitrosodiphenylamine	<0.19		0.19	0.023	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
Pentachlorophenol	<0.77		0.77	0.095	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
<b>Phenanthrene</b>	<b>0.52</b>		0.038	0.0083	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
Phenol	<0.19		0.19	0.017	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1
<b>Pyrene</b>	<b>0.64</b>		0.038	0.010	mg/Kg	✱	03/10/24 12:40	03/11/24 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	58		31 - 166	03/10/24 12:40	03/11/24 13:08	1
Phenol-d5 (Surr)	59		30 - 153	03/10/24 12:40	03/11/24 13:08	1
Nitrobenzene-d5 (Surr)	60		37 - 147	03/10/24 12:40	03/11/24 13:08	1
2-Fluorobiphenyl (Surr)	65		43 - 145	03/10/24 12:40	03/11/24 13:08	1
2,4,6-Tribromophenol (Surr)	61		31 - 143	03/10/24 12:40	03/11/24 13:08	1
Terphenyl-d14 (Surr)	71		42 - 157	03/10/24 12:40	03/11/24 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.23</b>	<b>J</b>	1.1	0.22	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Arsenic</b>	<b>6.4</b>		0.56	0.19	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Barium</b>	<b>150</b>		0.56	0.064	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Beryllium</b>	<b>0.86</b>		0.22	0.052	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Boron</b>	<b>15</b>		2.8	0.26	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Cadmium</b>	<b>0.50</b>	<b>B</b>	0.11	0.020	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Calcium</b>	<b>57000</b>	<b>B</b>	56	9.5	mg/Kg	✱	03/06/24 10:00	03/08/24 01:09	5
<b>Chromium</b>	<b>18</b>		0.56	0.28	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Cobalt</b>	<b>12</b>		0.28	0.073	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Copper</b>	<b>27</b>		0.56	0.16	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Iron</b>	<b>19000</b>		11	5.8	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Lead</b>	<b>180</b>		0.28	0.13	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Magnesium</b>	<b>22000</b>	<b>B</b>	5.6	2.8	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Manganese</b>	<b>460</b>		0.56	0.081	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Nickel</b>	<b>29</b>		0.56	0.16	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Potassium</b>	<b>2900</b>		28	9.9	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
Selenium	<0.56		0.56	0.33	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Silver</b>	<b>0.48</b>	<b>J</b>	1.4	0.36	mg/Kg	✱	03/06/24 10:00	03/08/24 01:09	5
<b>Sodium</b>	<b>940</b>		56	8.3	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Thallium</b>	<b>1.2</b>		0.56	0.28	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Vanadium</b>	<b>23</b>		0.28	0.066	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1
<b>Zinc</b>	<b>140</b>		1.1	0.49	mg/Kg	✱	03/06/24 10:00	03/07/24 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.36</b>	<b>J</b>	0.50	0.050	mg/L		03/04/24 09:13	03/06/24 04:26	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/24 09:13	03/06/24 04:26	1
<b>Boron</b>	<b>0.22</b>	<b>J</b>	0.50	0.050	mg/L		03/04/24 09:13	03/06/24 04:26	1

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# Client Sample Results

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (8-15)**

**Lab Sample ID: 500-246820-8**

Date Collected: 02/29/24 12:05

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cadmium</b>	<b>0.0031</b>	<b>J</b>	0.0050	0.0020	mg/L		03/04/24 09:13	03/06/24 04:26	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:26	1
<b>Cobalt</b>	<b>0.042</b>		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:26	1
<b>Iron</b>	<b>0.30</b>	<b>J</b>	0.40	0.20	mg/L		03/04/24 09:13	03/06/24 04:26	1
<b>Lead</b>	<b>3.1</b>		0.0075	0.0075	mg/L		03/04/24 09:13	03/11/24 14:07	1
<b>Manganese</b>	<b>5.9</b>		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:26	1
<b>Nickel</b>	<b>0.042</b>		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:26	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/24 09:13	03/06/24 04:26	1
Silver	<0.025	^1-	0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:26	1
<b>Zinc</b>	<b>2.4</b>		0.50	0.020	mg/L		03/04/24 09:13	03/06/24 04:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/24 09:06	03/05/24 20:47	1
<b>Manganese</b>	<b>0.050</b>		0.025	0.010	mg/L		03/04/24 09:06	03/05/24 20:47	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		03/04/24 09:13	03/06/24 02:14	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/04/24 09:13	03/06/24 02:14	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		03/05/24 10:40	03/06/24 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.043</b>		0.019	0.0099	mg/Kg	☼	03/05/24 15:35	03/06/24 09:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>7.7</b>		0.2	0.2	SU			03/06/24 12:25	1



# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (15-22)**

**Lab Sample ID: 500-246820-9**

Date Collected: 02/29/24 12:35

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.011	J**	0.015	0.0066	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Benzene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Bromodichloromethane	<0.0015		0.0015	0.00031	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Bromoform	<0.0015		0.0015	0.00045	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Bromomethane	<0.0038		0.0038	0.0014	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
2-Butanone (MEK)	<0.0038	*+	0.0038	0.0017	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Carbon disulfide	<0.0038	*+	0.0038	0.00079	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Carbon tetrachloride	<0.0015	*+	0.0015	0.00044	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Chlorobenzene	<0.0015		0.0015	0.00056	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Chloroethane	<0.0038		0.0038	0.0011	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Chloroform	<0.0015		0.0015	0.00053	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Chloromethane	<0.0038		0.0038	0.0015	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
cis-1,2-Dichloroethene	<0.0015		0.0015	0.00043	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
cis-1,3-Dichloropropene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Dibromochloromethane	<0.0015		0.0015	0.00050	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,1-Dichloroethane	<0.0015		0.0015	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,2-Dichloroethane	<0.0038		0.0038	0.0012	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,1-Dichloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,2-Dichloropropane	<0.0015		0.0015	0.00039	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,3-Dichloropropane, Total	<0.0015		0.0015	0.00054	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Ethylbenzene	<0.0015		0.0015	0.00073	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
2-Hexanone	<0.0038		0.0038	0.0012	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Methylene Chloride	<0.0038		0.0038	0.0015	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
4-Methyl-2-pentanone (MIBK)	<0.0038		0.0038	0.0011	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Methyl tert-butyl ether	<0.0015		0.0015	0.00045	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Styrene	<0.0015		0.0015	0.00046	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,1,2,2-Tetrachloroethane	<0.0015		0.0015	0.00049	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Tetrachloroethene	<0.0015		0.0015	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Toluene	<0.0015		0.0015	0.00039	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
trans-1,2-Dichloroethene	<0.0015		0.0015	0.00068	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
trans-1,3-Dichloropropene	<0.0015		0.0015	0.00054	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,1,1-Trichloroethane	<0.0015		0.0015	0.00051	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
1,1,2-Trichloroethane	<0.0015		0.0015	0.00065	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Trichloroethene	<0.0015	*+	0.0015	0.00052	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Vinyl acetate	<0.0038		0.0038	0.0013	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Vinyl chloride	<0.0015		0.0015	0.00067	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1
Xylenes, Total	<0.0030		0.0030	0.00049	mg/Kg	☼	02/29/24 18:31	03/02/24 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		75 - 131	02/29/24 18:31	03/02/24 21:26	1
Dibromofluoromethane	112		75 - 126	02/29/24 18:31	03/02/24 21:26	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 134	02/29/24 18:31	03/02/24 21:26	1
Toluene-d8 (Surr)	103		75 - 124	02/29/24 18:31	03/02/24 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.21		0.21	0.029	mg/Kg	☼	03/10/24 12:40	03/11/24 11:32	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	☼	03/10/24 12:40	03/11/24 11:32	1
1,3-Dichlorobenzene	<0.21		0.21	0.018	mg/Kg	☼	03/10/24 12:40	03/11/24 11:32	1
1,4-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	☼	03/10/24 12:40	03/11/24 11:32	1

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (15-22)**

**Lab Sample ID: 500-246820-9**

Date Collected: 02/29/24 12:35

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	<0.21		0.21	0.029	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2,4,5-Trichlorophenol	<0.41		0.41	0.015	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2,4-Dichlorophenol	<0.41		0.41	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2,4-Dimethylphenol	<0.41		0.41	0.091	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2,4-Dinitrophenol	<0.82		0.82	0.24	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2,4-Dinitrotoluene	<0.21		0.21	0.023	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2-Chloronaphthalene	<0.21		0.21	0.015	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2-Methylnaphthalene	<0.082		0.082	0.0082	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2-Nitroaniline	<0.21		0.21	0.022	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
2-Nitrophenol	<0.41		0.41	0.028	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
3 & 4 Methylphenol	<0.21		0.21	0.030	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.033	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
3-Nitroaniline	<0.41		0.41	0.019	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
4,6-Dinitro-2-methylphenol	<0.82		0.82	0.23	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
4-Bromophenyl phenyl ether	<0.21		0.21	0.028	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
4-Chloro-3-methylphenol	<0.41		0.41	0.016	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
4-Chloroaniline	<0.82		0.82	0.43	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
4-Chlorophenyl phenyl ether	<0.21		0.21	0.054	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
4-Nitroaniline	<0.41		0.41	0.030	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
4-Nitrophenol	<0.82		0.82	0.15	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Acenaphthene	<0.041		0.041	0.0083	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Acenaphthylene	<0.041		0.041	0.0069	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Anthracene	<0.041		0.041	0.0083	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
<b>Benzo[a]anthracene</b>	<b>0.023 J</b>		0.041	0.0087	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Benzo[a]pyrene	<0.041		0.041	0.039	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Benzo[b]fluoranthene	<0.041		0.041	0.039	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Benzo[g,h,i]perylene	<0.041		0.041	0.0089	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Benzo[k]fluoranthene	<0.041		0.041	0.016	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Bis(2-chloroethoxy)methane	<0.21		0.21	0.015	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Butyl benzyl phthalate	<0.21		0.21	0.020	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
<b>Chrysene</b>	<b>0.022 J</b>		0.041	0.011	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Dibenzofuran	<0.21		0.21	0.015	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Dimethyl phthalate	<0.21		0.21	0.0089	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
<b>Fluoranthene</b>	<b>0.041</b>		0.041	0.0095	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Hexachlorobenzene	<0.082		0.082	0.0078	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Hexachlorobutadiene	<0.21		0.21	0.023	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Hexachlorocyclopentadiene	<0.82		0.82	0.43	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1

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# Client Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (15-22)**

**Lab Sample ID: 500-246820-9**

Date Collected: 02/29/24 12:35

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<0.21		0.21	0.020	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Indeno[1,2,3-cd]pyrene	<0.041		0.041	0.040	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Isophorone	<0.21		0.21	0.021	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Naphthalene	<0.041		0.041	0.0074	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.0081	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
N-Nitrosodiphenylamine	<0.21		0.21	0.024	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Pentachlorophenol	<0.82		0.82	0.10	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
<b>Phenanthrene</b>	<b>0.031</b>	<b>J</b>	0.041	0.0089	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
Phenol	<0.21		0.21	0.018	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1
<b>Pyrene</b>	<b>0.034</b>	<b>J</b>	0.041	0.011	mg/Kg	☆	03/10/24 12:40	03/11/24 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	54		31 - 166	03/10/24 12:40	03/11/24 11:32	1
Phenol-d5 (Surr)	55		30 - 153	03/10/24 12:40	03/11/24 11:32	1
Nitrobenzene-d5 (Surr)	53		37 - 147	03/10/24 12:40	03/11/24 11:32	1
2-Fluorobiphenyl (Surr)	57		43 - 145	03/10/24 12:40	03/11/24 11:32	1
2,4,6-Tribromophenol (Surr)	56		31 - 143	03/10/24 12:40	03/11/24 11:32	1
Terphenyl-d14 (Surr)	59		42 - 157	03/10/24 12:40	03/11/24 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.23</b>	<b>J</b>	1.2	0.23	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Arsenic</b>	<b>6.6</b>		0.59	0.20	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Barium</b>	<b>75</b>		0.59	0.068	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Beryllium</b>	<b>0.93</b>		0.24	0.055	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Boron</b>	<b>13</b>		3.0	0.28	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Cadmium</b>	<b>0.29</b>	<b>B</b>	0.12	0.021	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Calcium</b>	<b>27000</b>	<b>B</b>	12	2.0	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Chromium</b>	<b>20</b>		0.59	0.29	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Cobalt</b>	<b>15</b>		0.30	0.078	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Copper</b>	<b>28</b>		0.59	0.17	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Iron</b>	<b>21000</b>		12	6.2	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Lead</b>	<b>33</b>		0.30	0.14	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Magnesium</b>	<b>17000</b>	<b>B</b>	5.9	2.9	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Manganese</b>	<b>320</b>		0.59	0.086	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Nickel</b>	<b>36</b>		0.59	0.17	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Potassium</b>	<b>3200</b>		30	11	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
Selenium	<0.59		0.59	0.35	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Silver</b>	<b>0.11</b>	<b>J</b>	0.30	0.077	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Sodium</b>	<b>180</b>		59	8.8	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Thallium</b>	<b>0.80</b>		0.59	0.30	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Vanadium</b>	<b>25</b>		0.30	0.070	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1
<b>Zinc</b>	<b>66</b>		1.2	0.52	mg/Kg	☆	03/06/24 10:00	03/07/24 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.46</b>	<b>J</b>	0.50	0.050	mg/L		03/04/24 09:13	03/06/24 04:30	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/24 09:13	03/06/24 04:30	1
<b>Boron</b>	<b>0.094</b>	<b>J</b>	0.50	0.050	mg/L		03/04/24 09:13	03/06/24 04:30	1

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# Client Sample Results

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (15-22)**

**Lab Sample ID: 500-246820-9**

Date Collected: 02/29/24 12:35

Matrix: Solid

Date Received: 02/29/24 16:10

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/24 09:13	03/06/24 04:30	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:30	1
<b>Cobalt</b>	<b>0.026</b>		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:30	1
Iron	<0.40		0.40	0.20	mg/L		03/04/24 09:13	03/06/24 04:30	1
<b>Lead</b>	<b>0.0083</b>		0.0075	0.0075	mg/L		03/04/24 09:13	03/06/24 04:30	1
<b>Manganese</b>	<b>3.5</b>		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:30	1
<b>Nickel</b>	<b>0.027</b>		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:30	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/24 09:13	03/06/24 04:30	1
Silver	<0.025	^1-	0.025	0.010	mg/L		03/04/24 09:13	03/06/24 04:30	1
Zinc	<0.50		0.50	0.020	mg/L		03/04/24 09:13	03/06/24 04:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/24 09:06	03/05/24 20:51	1
<b>Manganese</b>	<b>0.019</b>	J	0.025	0.010	mg/L		03/04/24 09:06	03/05/24 20:51	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		03/04/24 09:13	03/06/24 02:28	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/04/24 09:13	03/06/24 02:28	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		03/05/24 10:40	03/06/24 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.031</b>		0.020	0.011	mg/Kg	☼	03/05/24 15:35	03/06/24 09:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH (SW846 9045D)</b>	<b>7.7</b>		0.2	0.2	SU			03/06/24 12:43	1

# Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

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

### Metals

Qualifier	Qualifier Description
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## GC/MS VOA

### Prep Batch: 756581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	5035	
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	5035	
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	5035	
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	5035	

### Analysis Batch: 756583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	8260D	756581
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	8260D	756581
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	8260D	756581
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	8260D	756581

## GC/MS Semi VOA

### Prep Batch: 757545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	3546	
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	3546	
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	3546	

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 757614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	8270E	757545

### Analysis Batch: 757621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	8270E	757545
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	8270E	757545

### Prep Batch: 757697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	3546	
MB 500-757697/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-757697/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Analysis Batch: 757850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	8270E	757697
MB 500-757697/1-A	Method Blank	Total/NA	Solid	8270E	757697
LCS 500-757697/2-A	Lab Control Sample	Total/NA	Solid	8270E	757697

## Metals

### Leach Batch: 756526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	SPLP East	Solid	1312	
500-246820-7	3835-01-B03 (0-8)	SPLP East	Solid	1312	
500-246820-8	3835-01-B03 (8-15)	SPLP East	Solid	1312	
500-246820-9	3835-01-B03 (15-22)	SPLP East	Solid	1312	

# QC Association Summary

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Metals (Continued)

### Leach Batch: 756526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-756526/1-B	Method Blank	SPLP East	Solid	1312	
500-246820-1 MS	3835-01-B06 (0-1)	SPLP East	Solid	1312	
500-246820-1 DU	3835-01-B06 (0-1)	SPLP East	Solid	1312	

### Leach Batch: 756543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	TCLP	Solid	1311	
500-246820-7	3835-01-B03 (0-8)	TCLP	Solid	1311	
500-246820-8	3835-01-B03 (8-15)	TCLP	Solid	1311	
500-246820-9	3835-01-B03 (15-22)	TCLP	Solid	1311	

### Prep Batch: 756696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	SPLP East	Solid	3010A	756526
500-246820-7	3835-01-B03 (0-8)	SPLP East	Solid	3010A	756526
500-246820-8	3835-01-B03 (8-15)	SPLP East	Solid	3010A	756526
500-246820-9	3835-01-B03 (15-22)	SPLP East	Solid	3010A	756526
500-246820-1 MS	3835-01-B06 (0-1)	SPLP East	Solid	3010A	756526
500-246820-1 DU	3835-01-B06 (0-1)	SPLP East	Solid	3010A	756526

### Prep Batch: 756790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	TCLP	Solid	3010A	756543
500-246820-7	3835-01-B03 (0-8)	TCLP	Solid	3010A	756543

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# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Metals (Continued)

### Prep Batch: 756790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-8	3835-01-B03 (8-15)	TCLP	Solid	3010A	756543
500-246820-9	3835-01-B03 (15-22)	TCLP	Solid	3010A	756543

### Prep Batch: 756908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	TCLP	Solid	7470A	756543
500-246820-7	3835-01-B03 (0-8)	TCLP	Solid	7470A	756543
500-246820-8	3835-01-B03 (8-15)	TCLP	Solid	7470A	756543
500-246820-9	3835-01-B03 (15-22)	TCLP	Solid	7470A	756543

### Prep Batch: 756913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	7471B	
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	7471B	
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	7471B	
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	7471B	

### Analysis Batch: 757072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	TCLP	Solid	6010D	756790

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# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Metals (Continued)

### Analysis Batch: 757072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-7	3835-01-B03 (0-8)	TCLP	Solid	6010D	756790
500-246820-8	3835-01-B03 (8-15)	TCLP	Solid	6010D	756790
500-246820-9	3835-01-B03 (15-22)	TCLP	Solid	6010D	756790

### Analysis Batch: 757074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	SPLP East	Solid	6010D	756696
500-246820-7	3835-01-B03 (0-8)	SPLP East	Solid	6010D	756696
500-246820-8	3835-01-B03 (8-15)	SPLP East	Solid	6010D	756696
500-246820-9	3835-01-B03 (15-22)	SPLP East	Solid	6010D	756696
500-246820-1 MS	3835-01-B06 (0-1)	SPLP East	Solid	6010D	756696
500-246820-1 DU	3835-01-B06 (0-1)	SPLP East	Solid	6010D	756696

### Analysis Batch: 757080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	TCLP	Solid	6020B	756790
500-246820-7	3835-01-B03 (0-8)	TCLP	Solid	6020B	756790
500-246820-8	3835-01-B03 (8-15)	TCLP	Solid	6020B	756790
500-246820-9	3835-01-B03 (15-22)	TCLP	Solid	6020B	756790

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Metals

### Prep Batch: 757085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	3050B	
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	3050B	
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	3050B	
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	3050B	

### Analysis Batch: 757104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	7471B	756913
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	7471B	756913
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	7471B	756913
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	7471B	756913

### Analysis Batch: 757131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	TCLP	Solid	7470A	756908
500-246820-7	3835-01-B03 (0-8)	TCLP	Solid	7470A	756908
500-246820-8	3835-01-B03 (8-15)	TCLP	Solid	7470A	756908
500-246820-9	3835-01-B03 (15-22)	TCLP	Solid	7470A	756908

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Metals (Continued)

### Analysis Batch: 757357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	6010D	757085
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	6010D	757085
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	6010D	757085
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	6010D	757085

### Analysis Batch: 757451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	6010D	757085
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	6010D	757085

### Analysis Batch: 757732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-8	3835-01-B03 (8-15)	TCLP	Solid	6010D	756790
LB 500-756543/1-C	Method Blank	TCLP	Solid	6010D	756790
LCS 500-756790/2-A	Lab Control Sample	Total/NA	Solid	6010D	756790

## General Chemistry

### Analysis Batch: 756777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	Moisture	

# QC Association Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## General Chemistry (Continued)

### Analysis Batch: 756777 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	Moisture	

### Analysis Batch: 756836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	Moisture	
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	Moisture	

### Analysis Batch: 756953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-246820-1	3835-01-B06 (0-1)	Total/NA	Solid	9045D	
500-246820-7	3835-01-B03 (0-8)	Total/NA	Solid	9045D	
500-246820-8	3835-01-B03 (8-15)	Total/NA	Solid	9045D	
500-246820-9	3835-01-B03 (15-22)	Total/NA	Solid	9045D	

# Surrogate Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Method: 8260D - Volatile Organic Compounds by 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)
500-246820-1	3835-01-B06 (0-1)	88	112	105	102
500-246820-7	3835-01-B03 (0-8)	112	112	105	112
500-246820-8	3835-01-B03 (8-15)	90	110	105	106
500-246820-9	3835-01-B03 (15-22)	87	112	103	103
LCS 500-756583/3	Lab Control Sample	86	102	94	104
LCS 500-756637/4	Lab Control Sample	105	106	116	111
LCS 500-756583/4	Lab Control Sample Dup	84	103	93	104
LCS 500-756637/5	Lab Control Sample Dup	111	102	114	113
MB 500-756583/6	Method Blank	82	107	97	102
MB 500-756637/7	Method Blank	111	110	119	113

### 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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (31-166)	PHL (30-153)	NBZ (37-147)	FBP (43-145)	TBP (31-143)	TPHL (42-157)
500-246820-1	3835-01-B06 (0-1)	53	55	49	57	77	69
500-246820-7	3835-01-B03 (0-8)	53	52	56	63	79	69
500-246820-8	3835-01-B03 (8-15)	58	59	60	65	61	71
500-246820-9	3835-01-B03 (15-22)	54	55	53	57	56	59
LCS 500-757545/2-A	Lab Control Sample	72	74	74	76	79	78
LCS 500-757697/2-A	Lab Control Sample	77	75	72	74	92	81
MB 500-757545/1-A	Method Blank	80	79	79	82	78	87
MB 500-757697/1-A	Method Blank	82	79	77	80	90	94

### Surrogate Legend

2FP = 2-Fluorophenol (Surr)  
PHL = Phenol-d5 (Surr)

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# Surrogate Summary

Client: WSP USA Inc.

Project/Site: IDOT - 196-002-WO 027A FAI 90/94

NBZ = Nitrobenzene-d5 (Surr)

FBP = 2-Fluorobiphenyl (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

TPHL = Terphenyl-d14 (Surr)

Job ID: 500-246820-1

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# QC Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: LCS 500-757085/2-A**  
**Matrix: Solid**  
**Analysis Batch: 757357**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 757085**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	50.0	45.3		mg/Kg		91	80 - 120
Potassium	1000	922		mg/Kg		92	80 - 120
Selenium	10.0	8.99		mg/Kg		90	80 - 120
Silver	5.00	4.14		mg/Kg		83	80 - 120
Sodium	1000	963		mg/Kg		96	80 - 120
Thallium	10.0	8.77		mg/Kg		88	80 - 120
Vanadium	50.0	47.1		mg/Kg		94	80 - 120
Zinc	50.0	44.6		mg/Kg		89	80 - 120

**Lab Sample ID: LB 500-756543/1-C**  
**Matrix: Solid**  
**Analysis Batch: 757072**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 756790**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.50		0.50	0.050	mg/L		03/04/24 09:13	03/06/24 02:59	1
Beryllium	<0.0040		0.0040	0.0040	mg/L		03/04/24 09:13	03/06/24 02:59	1
Boron	<0.50		0.50	0.050	mg/L		03/04/24 09:13	03/06/24 02:59	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/24 09:13	03/06/24 02:59	1
Chromium	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 02:59	1
Cobalt	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 02:59	1
Iron	<0.40		0.40	0.20	mg/L		03/04/24 09:13	03/06/24 02:59	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/24 09:13	03/06/24 02:59	1
Manganese	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 02:59	1
Nickel	<0.025		0.025	0.010	mg/L		03/04/24 09:13	03/06/24 02:59	1
Selenium	<0.050		0.050	0.020	mg/L		03/04/24 09:13	03/06/24 02:59	1
Silver	<0.025	^1-	0.025	0.010	mg/L		03/04/24 09:13	03/06/24 02:59	1
Zinc	<0.50		0.50	0.020	mg/L		03/04/24 09:13	03/06/24 02:59	1

**Lab Sample ID: LB 500-756543/1-C**  
**Matrix: Solid**  
**Analysis Batch: 757732**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 756790**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.40		0.40	0.20	mg/L		03/04/24 09:13	03/11/24 14:00	1

**Lab Sample ID: LB 500-756526/1-B**  
**Matrix: Solid**  
**Analysis Batch: 757074**

**Client Sample ID: Method Blank**  
**Prep Type: SPLP East**  
**Prep Batch: 756696**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0050		0.0050	0.0020	mg/L		03/04/24 09:06	03/05/24 19:48	1
Lead	<0.0075		0.0075	0.0075	mg/L		03/04/24 09:06	03/05/24 19:48	1
Manganese	<0.025		0.025	0.010	mg/L		03/04/24 09:06	03/05/24 19:48	1

**Lab Sample ID: 500-246820-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 757074**

**Client Sample ID: 3835-01-B06 (0-1)**  
**Prep Type: SPLP East**  
**Prep Batch: 756696**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	<0.0050	F1	0.0500	0.0295	F1	mg/L		59	75 - 125

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# QC Sample Results

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Method: 6010D - Metals (ICP) (Continued)

**Lab Sample ID: 500-246820-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 757074**

**Client Sample ID: 3835-01-B06 (0-1)**  
**Prep Type: SPLP East**  
**Prep Batch: 756696**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Lead	0.13	F1	0.100	0.199	F1	mg/L		67		75 - 125
Manganese	0.76	F1	0.500	1.08	F1	mg/L		64		75 - 125

**Lab Sample ID: 500-246820-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 757074**

**Client Sample ID: 3835-01-B06 (0-1)**  
**Prep Type: SPLP East**  
**Prep Batch: 756696**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Cadmium	<0.0050	F1	<0.0050		mg/L		NC	20
Lead	0.13	F1	0.141		mg/L		6	20
Manganese	0.76	F1	0.821		mg/L		8	20

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: LCS 500-756790/2-A**  
**Matrix: Solid**  
**Analysis Batch: 757080**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 756790**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Antimony	0.500	0.518		mg/L		104		80 - 120
Thallium	0.100	0.0924		mg/L		92		80 - 120

**Lab Sample ID: LB 500-756543/1-C**  
**Matrix: Solid**  
**Analysis Batch: 757080**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 756790**

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0060		0.0060	0.0060	mg/L		03/04/24 09:13	03/06/24 01:08	1
Thallium	<0.0020		0.0020	0.0020	mg/L		03/04/24 09:13	03/06/24 01:08	1

## Method: 7470A - TCLP Mercury

**Lab Sample ID: MB 500-756908/12-A**  
**Matrix: Solid**  
**Analysis Batch: 757131**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 756908**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020	0.00020	mg/L		03/05/24 10:40	03/06/24 09:20	1

**Lab Sample ID: LCS 500-756908/14-A**  
**Matrix: Solid**  
**Analysis Batch: 757131**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 756908**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Mercury	0.00201	0.00188		mg/L		94		80 - 120

# Lab Chronicle

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B06 (0-1)**  
**Date Collected: 02/29/24 09:45**  
**Date Received: 02/29/24 16:10**

**Lab Sample ID: 500-246820-1**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			756526		EET CHI	03/01/24 18:20 - 03/02/24 12:20 <sup>1</sup>
SPLP East	Prep	3010A			756696	BDE	EET CHI	03/04/24 09:06 - 03/04/24 15:06 <sup>1</sup>
SPLP East	Analysis	6010D		1	757074	SJ	EET CHI	03/05/24 19:56
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6010D		1	757072	SJ	EET CHI	03/06/24 03:45
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6020B		1	757080	RN	EET CHI	03/06/24 01:49
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	7470A			756908	MJG	EET CHI	03/05/24 10:40 - 03/05/24 12:40 <sup>1</sup>
TCLP	Analysis	7470A		1	757131	MJG	EET CHI	03/06/24 09:30
Total/NA	Analysis	9045D		1	756953	TR	EET CHI	03/06/24 10:20 - 03/06/24 10:38 <sup>1</sup>
Total/NA	Analysis	Moisture		1	756777	ER	EET CHI	03/04/24 15:37

**Client Sample ID: 3835-01-B06 (0-1)**  
**Date Collected: 02/29/24 09:45**  
**Date Received: 02/29/24 16:10**

**Lab Sample ID: 500-246820-1**  
**Matrix: Solid**  
**Percent Solids: 73.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			756581	LMB	EET CHI	02/29/24 18:31
Total/NA	Analysis	8260D		1	756583	W1T	EET CHI	03/02/24 18:09
Total/NA	Prep	3546			757697	NC	EET CHI	03/11/24 14:40
Total/NA	Analysis	8270E		2	757850	JSB	EET CHI	03/12/24 10:47
Total/NA	Prep	3050B			757085	BDE	EET CHI	03/06/24 10:00 - 03/06/24 16:00 <sup>1</sup>
Total/NA	Analysis	6010D		1	757357	SJ	EET CHI	03/07/24 13:43
Total/NA	Prep	7471B			756913	MJG	EET CHI	03/05/24 15:35
Total/NA	Analysis	7471B		1	757104	MJG	EET CHI	03/06/24 09:07

# Lab Chronicle

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

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**Client Sample ID: 3835-01-B03 (0-8)**

**Lab Sample ID: 500-246820-7**

**Date Collected: 02/29/24 11:50**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			756526		EET CHI	03/01/24 18:20 - 03/02/24 12:20 <sup>1</sup>
SPLP East	Prep	3010A			756696	BDE	EET CHI	03/04/24 09:06 - 03/04/24 15:06 <sup>1</sup>
SPLP East	Analysis	6010D		1	757074	SJ	EET CHI	03/05/24 20:42
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6010D		1	757072	SJ	EET CHI	03/06/24 04:21
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6020B		1	757080	RN	EET CHI	03/06/24 02:10
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	7470A			756908	MJG	EET CHI	03/05/24 10:40 - 03/05/24 12:40 <sup>1</sup>
TCLP	Analysis	7470A		1	757131	MJG	EET CHI	03/06/24 09:52
Total/NA	Analysis	9045D		1	756953	TR	EET CHI	03/06/24 12:07 - 03/06/24 12:25 <sup>1</sup>
Total/NA	Analysis	Moisture		1	756777	ER	EET CHI	03/04/24 15:37

# Lab Chronicle

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (0-8)**  
Date Collected: 02/29/24 11:50  
Date Received: 02/29/24 16:10

**Lab Sample ID: 500-246820-7**  
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			756581	LMB	EET CHI	02/29/24 18:31
Total/NA	Analysis	8260D		1	756583	W1T	EET CHI	03/02/24 20:37
Total/NA	Prep	3546			757545	NC	EET CHI	03/10/24 12:40
Total/NA	Analysis	8270E		1	757614	JSB	EET CHI	03/11/24 12:23
Total/NA	Prep	3050B			757085	BDE	EET CHI	03/06/24 10:00 - 03/06/24 16:00 <sup>1</sup>
Total/NA	Analysis	6010D		5	757451	SJ	EET CHI	03/08/24 01:05
Total/NA	Prep	3050B			757085	BDE	EET CHI	03/06/24 10:00 - 03/06/24 16:00 <sup>1</sup>
Total/NA	Analysis	6010D		1	757357	SJ	EET CHI	03/07/24 14:12
Total/NA	Prep	7471B			756913	MJG	EET CHI	03/05/24 15:35
Total/NA	Analysis	7471B		1	757104	MJG	EET CHI	03/06/24 09:19

**Client Sample ID: 3835-01-B03 (8-15)**  
Date Collected: 02/29/24 12:05  
Date Received: 02/29/24 16:10

**Lab Sample ID: 500-246820-8**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			756526		EET CHI	03/01/24 18:20 - 03/02/24 12:20 <sup>1</sup>
SPLP East	Prep	3010A			756696	BDE	EET CHI	03/04/24 09:06 - 03/04/24 15:06 <sup>1</sup>
SPLP East	Analysis	6010D		1	757074	SJ	EET CHI	03/05/24 20:47
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6010D		1	757732	SJ	EET CHI	03/11/24 14:07
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6010D		1	757072	SJ	EET CHI	03/06/24 04:26
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6020B		1	757080	RN	EET CHI	03/06/24 02:14
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	7470A			756908	MJG	EET CHI	03/05/24 10:40 - 03/05/24 12:40 <sup>1</sup>
TCLP	Analysis	7470A		1	757131	MJG	EET CHI	03/06/24 09:54
Total/NA	Analysis	9045D		1	756953	TR	EET CHI	03/06/24 12:25 - 03/06/24 12:43 <sup>1</sup>
Total/NA	Analysis	Moisture		1	756836	ER	EET CHI	03/05/24 08:31

**Client Sample ID: 3835-01-B03 (8-15)**  
Date Collected: 02/29/24 12:05  
Date Received: 02/29/24 16:10

**Lab Sample ID: 500-246820-8**  
Matrix: Solid  
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			756581	LMB	EET CHI	02/29/24 18:31
Total/NA	Analysis	8260D		1	756583	W1T	EET CHI	03/02/24 21:01
Total/NA	Prep	3546			757545	NC	EET CHI	03/10/24 12:40
Total/NA	Analysis	8270E		1	757621	JSB	EET CHI	03/11/24 13:08
Total/NA	Prep	3050B			757085	BDE	EET CHI	03/06/24 10:00 - 03/06/24 16:00 <sup>1</sup>
Total/NA	Analysis	6010D		5	757451	SJ	EET CHI	03/08/24 01:09

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# Lab Chronicle

Client: WSP USA Inc.  
 Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

**Client Sample ID: 3835-01-B03 (8-15)**

**Lab Sample ID: 500-246820-8**

**Date Collected: 02/29/24 12:05**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

**Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			757085	BDE	EET CHI	03/06/24 10:00 - 03/06/24 16:00 <sup>1</sup>
Total/NA	Analysis	6010D		1	757357	SJ	EET CHI	03/07/24 14:15
Total/NA	Prep	7471B			756913	MJG	EET CHI	03/05/24 15:35
Total/NA	Analysis	7471B		1	757104	MJG	EET CHI	03/06/24 09:48

**Client Sample ID: 3835-01-B03 (15-22)**

**Lab Sample ID: 500-246820-9**

**Date Collected: 02/29/24 12:35**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
SPLP East	Leach	1312			756526		EET CHI	03/01/24 18:20 - 03/02/24 12:20 <sup>1</sup>
SPLP East	Prep	3010A			756696	BDE	EET CHI	03/04/24 09:06 - 03/04/24 15:06 <sup>1</sup>
SPLP East	Analysis	6010D		1	757074	SJ	EET CHI	03/05/24 20:51
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6010D		1	757072	SJ	EET CHI	03/06/24 04:30
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	3010A			756790	BDE	EET CHI	03/04/24 09:13 - 03/04/24 15:13 <sup>1</sup>
TCLP	Analysis	6020B		1	757080	RN	EET CHI	03/06/24 02:28
TCLP	Leach	1311			756543		EET CHI	03/01/24 19:10 - 03/02/24 12:30 <sup>1</sup>
TCLP	Prep	7470A			756908	MJG	EET CHI	03/05/24 10:40 - 03/05/24 12:40 <sup>1</sup>
TCLP	Analysis	7470A		1	757131	MJG	EET CHI	03/06/24 09:56
Total/NA	Analysis	9045D		1	756953	TR	EET CHI	03/06/24 12:43 - 03/06/24 13:01 <sup>1</sup>
Total/NA	Analysis	Moisture		1	756836	ER	EET CHI	03/05/24 08:31

**Client Sample ID: 3835-01-B03 (15-22)**

**Lab Sample ID: 500-246820-9**

**Date Collected: 02/29/24 12:35**

**Matrix: Solid**

**Date Received: 02/29/24 16:10**

**Percent Solids: 79.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			756581	LMB	EET CHI	02/29/24 18:31
Total/NA	Analysis	8260D		1	756583	W1T	EET CHI	03/02/24 21:26
Total/NA	Prep	3546			757545	NC	EET CHI	03/10/24 12:40
Total/NA	Analysis	8270E		1	757621	JSB	EET CHI	03/11/24 11:32
Total/NA	Prep	3050B			757085	BDE	EET CHI	03/06/24 10:00 - 03/06/24 16:00 <sup>1</sup>
Total/NA	Analysis	6010D		1	757357	SJ	EET CHI	03/07/24 14:19
Total/NA	Prep	7471B			756913	MJG	EET CHI	03/05/24 15:35
Total/NA	Analysis	7471B		1	757104	MJG	EET CHI	03/06/24 09:50

# Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: IDOT - 196-002-WO 027A FAI 90/94

Job ID: 500-246820-1

## Laboratory: Eurofins Chicago

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

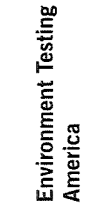
Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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

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



# Chain of Custody Record 719831



Environment Testing  
America

Address \_\_\_\_\_

TAL-8210

Regulatory Program:  DW  NPDES  RCRA  Other

Project Manager: **D Tiekert** Date: **2/27/2024**  
 Tell/Email: \_\_\_\_\_ Carrier: \_\_\_\_\_  
 Site Contact: **T Trojner** Lab Contact: \_\_\_\_\_  
 COC No: \_\_\_\_\_ of \_\_\_\_\_ COGs

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
 2 weeks  1 week  2 days  1 day  
 (X) if different from Below

Sample Date	Sample Time	Sample Type (C-Comp, G-Gas)	Matrix	# of Cont	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		Sample Specific Notes
					Sample	Time	Sample	Time	
2/29/24	0945	C	S	2	X	X	X	X	NOCs
2/29/24	1000	C	S	2	X	X	X	X	5VOLs
2/29/24	1040	C	S	2	X	X	X	X	% Solids
2/29/24	1045	C	S	2	X	X	X	X	RH
2/29/24	1055	C	S	2	X	X	X	X	Total metals
2/29/24	1110	C	S	2	X	X	X	X	TMP
2/29/24	1150	C	S	2	X	X	X	X	
2/29/24	1205	C	S	2	X	X	X	X	
2/29/24	1235	C	S	2	X	X	X	X	
2/29/24	1310	C	S	2	X	X	X	X	
2/29/24	1330	C	S	2	X	X	X	X	
2/29/24	1340	C	S	2	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  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

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

Custody Seal No \_\_\_\_\_  
 Relinquished by: *[Signature]* Date/Time: **2/24/24** 6:10  
 Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_  
 Relinquished by: *[Signature]* Date/Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received in Laboratory by: *[Signature]* Date/Time: **2/29/24** 16:10